# SERVICE MANUAL PMS 7004/7004S

marantz®

model PMS 7004/7004S

*Radio/Stereo Cassette Recorder*

## MARANTZ DESIGN AND SERVICE

Using superior design and selected high grade components, MARANTZ Company has created the ultimate in stereo sound. Only original MARANTZ parts can insure that your MARANTZ product will continue to perform to the specifications for which it is famous.

Parts for your MARANTZ stereo are generally available within 72 hours throughout the nation via a toll-free line to our National Parts Depot in California. The sales professionals who take your call immediately refer to their own desk top computer terminal and can quickly determine the availability and price information you require. If for some reason, your order should exceed our available stock, we usually can instantly provide an alternate replacement part or current delivery information. When the order is placed and confirmed, the computer simultaneously generates "hard copy" orders at the distribution center. As hard copies come directly from the computer to the national parts depot, your requested stock is assembled and prepared for shipment and placed on the first available carrier for delivery to you.

### ORDERING PARTS

Phone orders will eliminate mail delays, and we encourage the use of this method. If you order by mail, use MARANTZ parts order forms which are available from our National Parts Depot located at the following address:

SUPERSCOPE NATIONAL PARTS DEPARTMENT
20525 Nordhoff Street
Chatsworth, California 91311
Phone: 1-800-423-5108
1-213-998-9333

The following information must be supplied to eliminate delays in processing your order:

1. Complete address.
2. Complete part numbers.
3. Complete description of parts.
4. Model number for which part is required (indicate MARANTZ).
5. Account number (for account customers only).

Direct consumers will be provided with the current retail prive quotation on available parts in order to advise them of the cost of the parts and shipping.

### OVERSEAS PARTS ORDERING

Parts may also be ordered from the following overseas addresses:

**CANADA**

Superscope Canada, Ltd.
3710 Nashua Drive
Mississauga
Ontario, Canada L4V1M5

**AUSTRALIA**

Superscope (Australasia) Pty., Ltd.
32 Cross Street (P.O. Box 604)
Brookvale 2100 N.S.W.
Australia

**JAPAN**

Marantz Japan, Inc.
3622 Kamitsuruma
Sagamihara Shi
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Marantz Europe, S.A.
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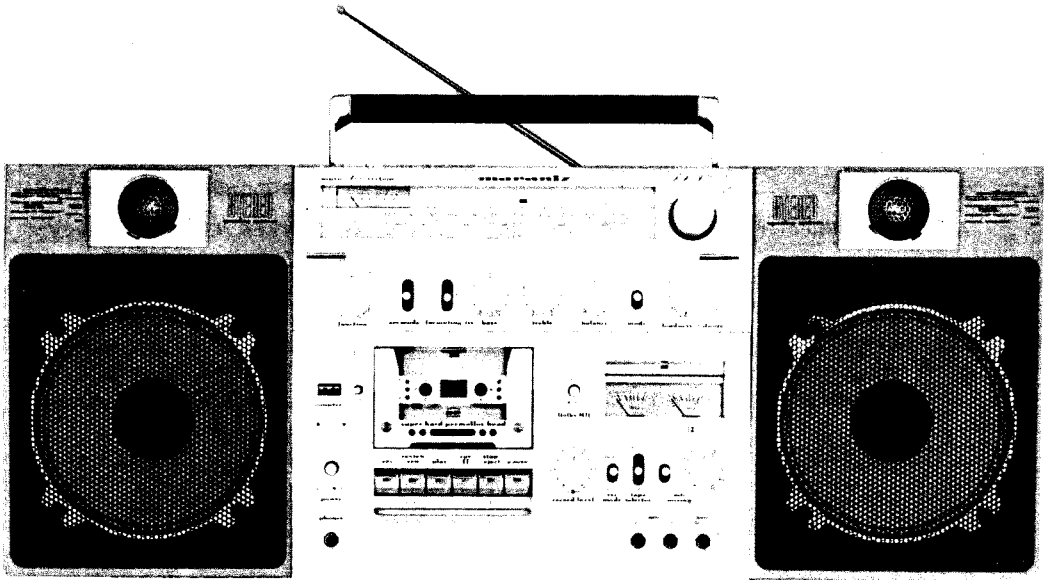
92600 Asnieres
Hauts-de-Seine
France

Marantz Audio U.K. Ltd.
London Road, 203
Staines
Middlesex
England

Marantz GmbH
Max-Planck-Strasse 22
D-6072 Dreieich 1
West Germany

All of the above locations are fully equipped to take care of your total service needs. Because various countries have differing configuration requirements, it is necessary that you contact the service facility in your particular country. In the event that there is no service location listed for your country, please contact the nearest facility for the necessary assistance.

# MARANTZ MODEL PMS7004/7004S RADIO/STEREO CASSETTE RECORDER



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# 1. SERVICE NOTE

### 1.1 MOUNTED P.W. BOARD

As can be seen from the circuit diagram, the chassis of Model PSM7004/PSM7004S consists of following units. Each unit mounted on a printed circuit board is described with in the square enclosed by bold dotted line on the circuit diagram.

| | | |
|---|---|---|
| Tuner . . . . . | mounted on P.W. Board | P100 |
| Rec/Play and Tone Amp . . . . . | mounted on P.W. Board | P200 |
| Power Amp . . . . . | mounted on P.W. Board | P400 |
| Mixing and Rec Mode . | mounted on P.W. Board | P500 |
| Phone Amp . . . . . | mounted on P.W. Board | P700 |
| Power Supply . . . . . | mounted on P.W. board | P800 |
| Bias OSC and Motor Filter . . . . . | mounted on P.W. Board | P950 |

# 2. TEST EQUIPMENT REQUIRED FOR SERVICING REPLACEMENT

### 2.1 AUDIO SECTION

For measuring checking the Model PMS7004/PMS7004S, the following instruments and materials are necessary.

- Audio Oscillator (at OSC)
- Attenuator (600 ohm)
- VTVM
- Distortion Meter
- Oscilloscope
- Bandpass Filter
- Wow and Flutter Meter
- Torque Meter (Cassette Type)
- Digital Frequency Counter
- Blank Tape (Completely erased with bulk eraser)
  - * AC-211 (Normal)
  - * AC-511 ($CrO_2$)
  - * CS-30 (Fe-Cr)
- Test Tape (New tape)
  - MTT-111 . . . . Wow and Flutter. Tape Speed.
  - MTT-112 or 212 . . . Measurement of output level. Signal to Noise Ratio.
  - MTT-150 . . . . Adjustment of output level.
  - MTT-216 or 116U . . . Measurement of Frequency Response. (For Normal)
  - MTT-316 or 116K . . . Measurement of Frequency Response. (For $CrO_2$, Fe-Cr)
  - MTT-121 . . . . Cross Talk.
  - MTT-141 . . . . Channel Separation.

**NOTE: If any doubt is noted in a measured value, used new tape.**

### 2-2. RADIO SECTION

FM: FM RF Signal Generator (Output Impedance 50 ohm)
Matching Box (Input 50 ohm, Output 75 ohm)
3.2 ohm Load Resistor
Audio VTVM & Distortion Meter

AM: AM RF Signal Generator (Output Impedance 50 ohm)
Test Loop Antenna . . . . . MW, $SW_1$, LW
3.2 ohm Load Resistor
Audio VTVM & Distortion Meter
Dummy Antenna (series 30Ω with 10 pF) . . SW

# 3. CIRCUIT DESCRIPTION

### 3.1 POWER SUPPLY CIRCUIT

8V line . . . . Equalizers, tuner, and bias oscillator
12V line . . . Power amplifier, motor, lamp. etc.
18V line . . . Dolby NR system IC, recording equalizer, and Mic amplifier

A zener diode stabilizes the 8V and 18V lines.

#### 3.1.1 DC-DC CONVERTER

1. The output DC18V of DC-DC converter is too low with 12V, and it is supplied into the part which is unabled to exhibit its performance fully on circuit. About 50 kHz oscillating frequency is used in this circuit. The sprious from this oscillator causes beat in radio. To avoid this, it is put in the sealed case, and further, this unit is set afloat from chassis.
2. This unit is closed up completely tightly. Therefore, it is impossible to replace the parts of its inside. Please change the unit itself.

**NOTE: If the DC-DC converter touches the body chassis, RF signals enter the AM band. The DC-DC converter must not touch the chassis. And, if the 18V line is accidentally grounded during servicing, peak (transient) current will flow, and damage the inside DC-DC converter.**

### 3.2 MUTING CIRCUIT

The muting circuit is switched ON automatically by muting circuit switches incorporated in the function, recording and playback switches.
Pop noise is muted by approx. 40 dB for a muting time of approx. 1 sec and is switched ON automatically during selection of function, recording and playback.

### 3.3 MIXING CIRCUIT

Mixing is possible in all modes, but the sure to turn the mixing switch OFF when not mixing. The reason for this is that the left channel microphone input is supplied to both right and left channels and stereo separation will deteriorate if the mixing switch is ON.

### 3.4 RF CIRCUIT

#### 3.4.1 FM RF CIRCUIT

The RF Section is a separate system consisting of RF amplifier, local oscillator, and mixer. The IF stage is a 2 IC and 1 Transistor direct amplifier, employing 3 ceramic filters to improve selectivity.
The multiplex circuit employs a BA1320 (IC for PLL MPX) to ensure an adequate voltage drop range of up to 5.5V, and the stereo indicator employs an LN217, a red angular LED.
The output of the multiplexer passes through a low-pass filter, which supresses the frequencies between 50 Hz and 15 kHz by ±1.0 dB.
1) muting, 2) full-time AFC, and 3) mono/stereo selection are attached circuits.
The muting circuit is designed so that the muting level can be adjusted by a preset resistor to cope with variations in transistor performance.

#### 3.4.2 AM RF CIRCUIT

The intermediate frequency is 455 kHz. Coil and ceramic filters are used as selection elements.

#### 3.4.3 METER CIRCUIT

The meter circuit reads the IF output of both the AM and FM signals and also detects the battery voltage.

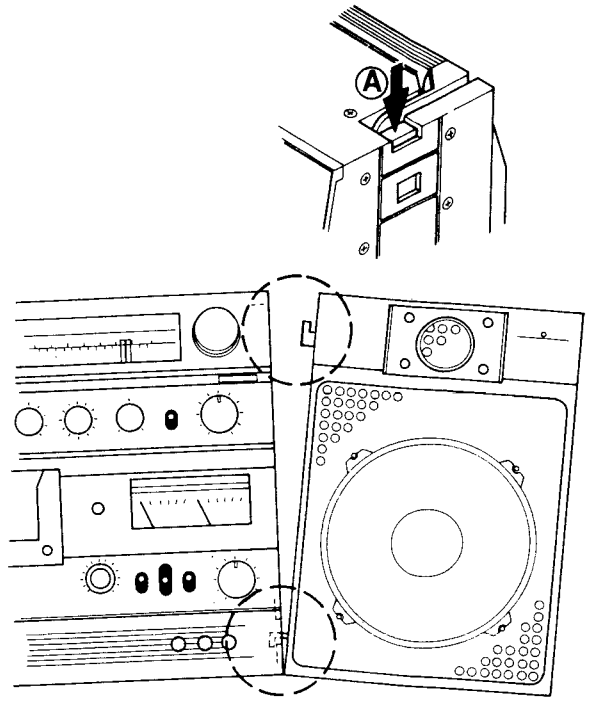
### 3.5 VOLTAGE CONVERSION

This unit may be converted to 110V operation by the Voltage Selector Switch (S009) located within the Battery Compartment.

## 4. UNIT DISASSEMBLY

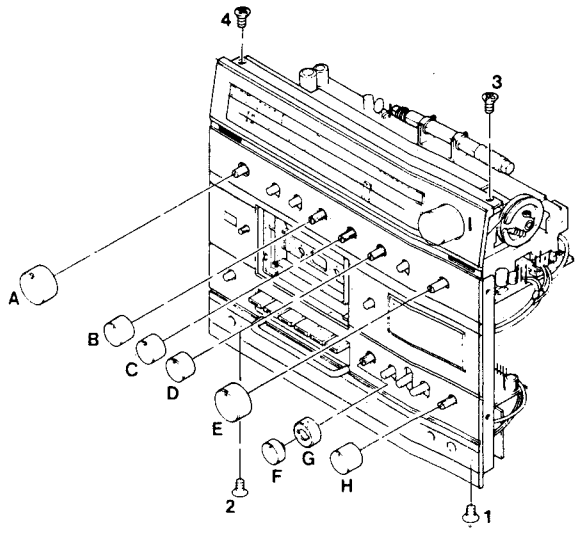
### 4.1 SPEAKER BOX REMOVAL

Depress reset button A and lift the body slightly to disengage the upper boss. Lift the speaker box to disengage the lower clamp.



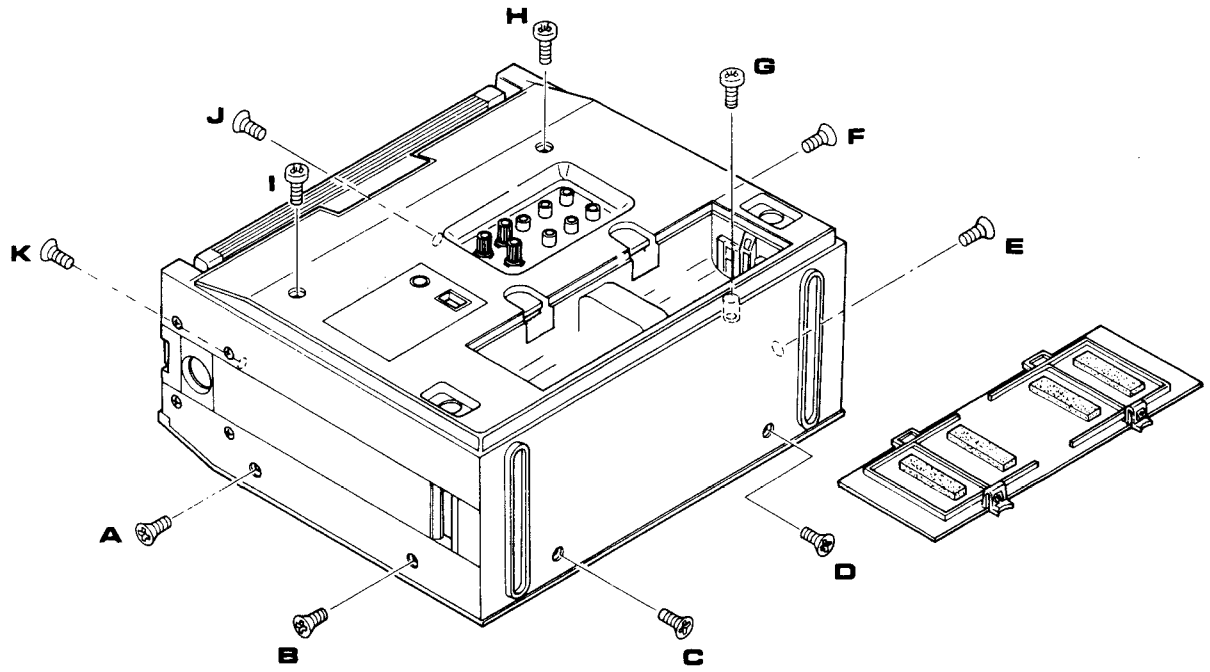

### 4.2 FRONT COVER REMOVAL

Remove knobs (A to I) and screws (1 to 4).



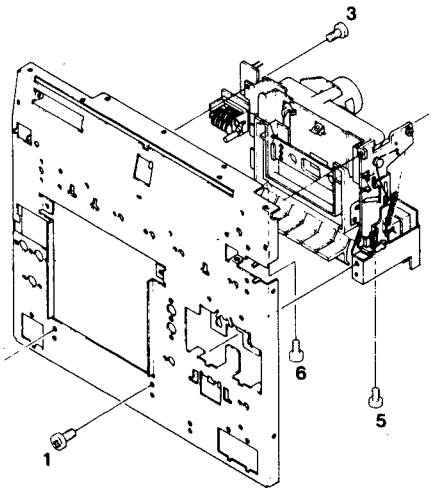
### 4.3 REAR COVER REMOVAL

After removing the battery lid, remove 11 screws (A to K) and remove the rear cover.




### 4.4 MECHANICAL PARTS REMOVAL

Remove screws (1 to 6).




## 5. SERVICE GUIDE

### 5.1 BATTERY VOLTAGE

What often happens when repairing a unit of this type is that you remedy the trouble without realizing that the battery is flat. When checking operation, always confirm that voltage is over 9V.

### 5.2 BATTERY POLARITY

If the polarity is wrong when the batteries are replaced, transistors and motor will be damaged. Avoid making this mistake.

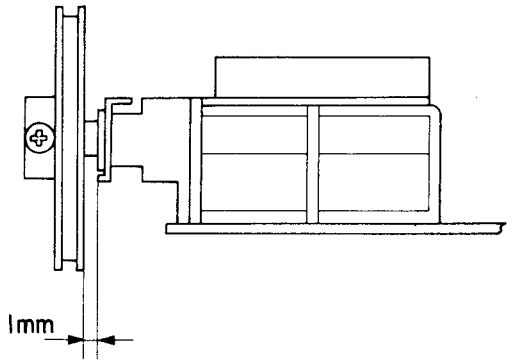
### 5.3 DIRTY HEAD

If magnetic materials from the tape or dust adhere to the heads, sound quality will deteriorate. To clean, wipe the heads with a soft cloth soaked in alcohol or carbon tetrachloride.

## 5.4 SERVICING NOTES

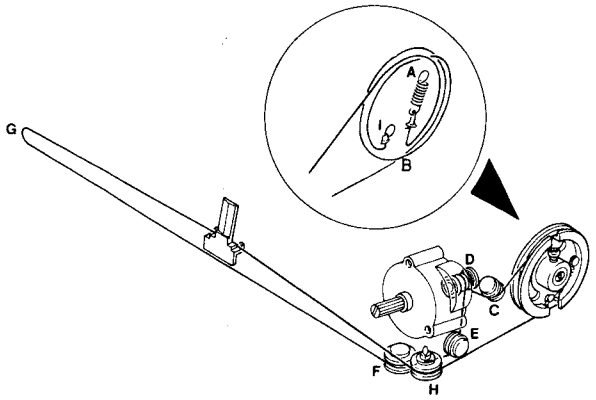
### 5.4.1 INSTALLING STRING DRUM

Distance between variable capacitor stopper and drum is 1 mm.



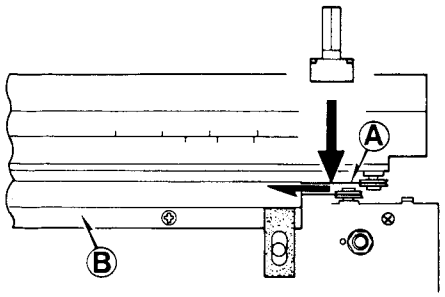

### 5.4.2 INSTALLING DIAL STRING

Route the string referring to the illustration.



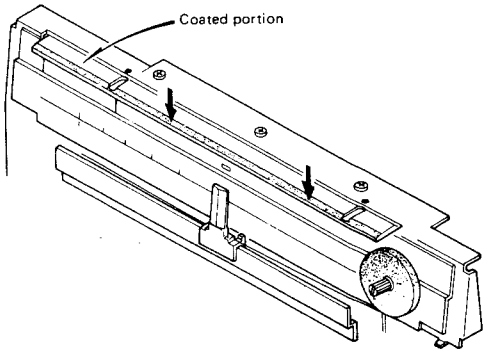

### 5.4.3 INSTALLING POINTER

After running the string between the right end of the guide and pulley, slide it to left to make the rest of the job easier.



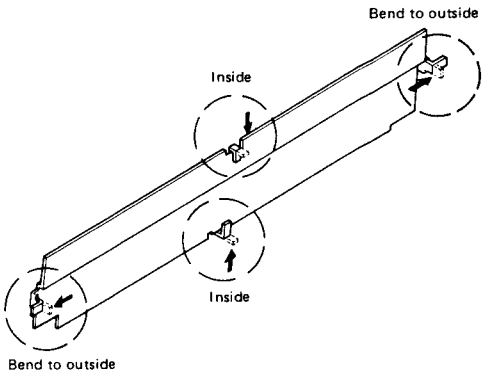

### 5.4.5 DIAL ILLUMINATING REFLECTOR

When the coated edge is inserted into the front chassis as shown below, take care to avoid scratching it. If it is scratched, light will be lost, reducing the amount of light reflected from the under side.



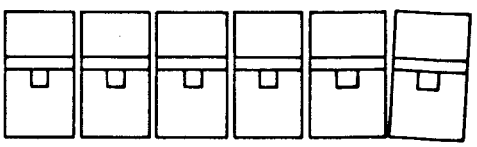

### 5.4.6 INSTALLING DIAL PLATE

Install the dial plate with right and left claws outside and upper and lower claws inside, respectively.




### 5.4.7 INSTALLING PUSH BUTTONS

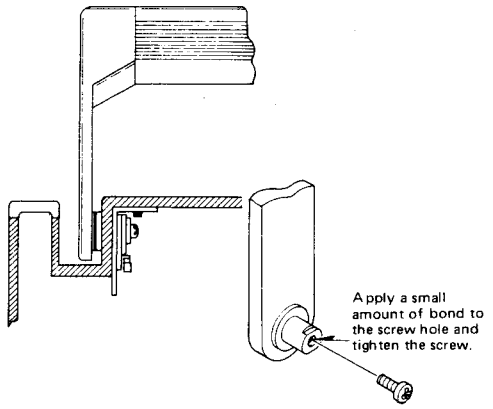
Make sure that the pushbuttons are installed vertical to the panel surface.



## 6. MECHANICAL ADJUSTMENTS

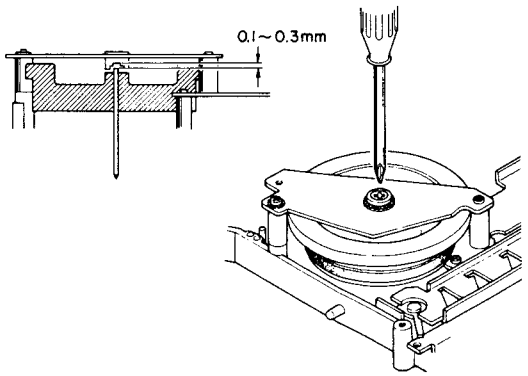
### 5.4.8 MOUNTING THE HANDLE SUPPORT AND REAR COVER

Apply a small amount of bond to the support screw hole as a loosening prevention measure and tighten the screw.




### 6.1 ADJUSTING THE FLYWHEEL THRUST

Using a Philips screwdriver, adjust the thrust screw on the flywheel bracket until the clearance between the capstan tail end and thrust bearing is 0.1 to 0.3 mm as shown. Adjustment must be effected by feel, as axial movement of the flywheel cannot be observed from above. Then paint-lock the screw.




### 5.5 TROUBLESHOOTING

The items listed below indicate the trouble most commonly encountered with the PMS7004/PMS7004S.

- Power supply is not turned ON.
  1. Batteries are flat.
  2. Broken fuse (F801).
  3. Incorrect connection of power connector (J804).
  4. Broken power cord.
- Abnormally low sound level

  When VU meters deflect:
  1. Defective power amplifier.
  2. Defective intermediate terminal.

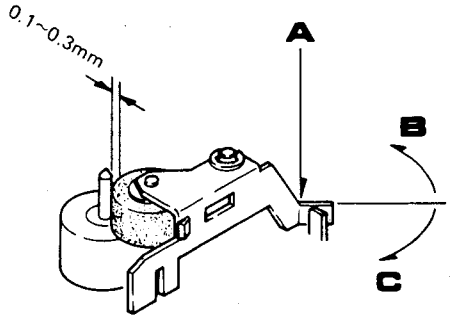
  When VU meters do not deflect:
  1. The muting circuit is ON.
  2. REC/PLAY switches (S202) have not returned fully.
- Distorted sound

  Does DC-DC converter voltage increase to 18V
  1. If does increase, check block.

### 6.2 ADJUSTING THE PAUSE TIMING

Set the unit in the play mode. Slowly press the pause button to stop the take-up reel. If necessary, adjust the bend angle of the pinch roller bracket arm (point A in the line drawing) until the clearance between the pinch roller and capstan is 0.1 to 0.3 mm.

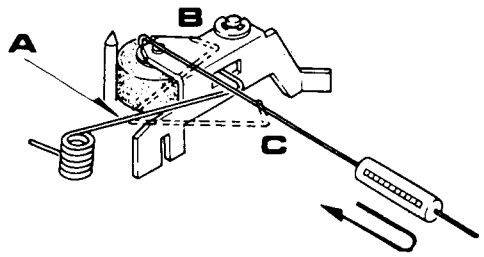
**NOTE: To widen the clearance, make the bend angle smaller (in the direction of C). To make the clearance narrower, widen the bend angle (in the direction of B).**



## 6.3 ADJUSTING THE PINCH ROLLER PRESSURE

Measure the pressure of the pinch roller using a gauge as shown. Draw the pinch roller in the direction of the arrow to detach it from the capstan shaft and gradually let it return toward the capstan. Read the gauge at the time when the pinch roller starts turning. The standard pressure is 300 ±50g. If the pressure is out of the range, bend the pinch roller spring around point A in the direction of B or C.

**NOTE: To increase the pressure, bend in the direction of B. To decrease the pressure, bend in the direction of C.**




## 6.4 ADJUSTING THE PLAY TIMING

It is normal that when the PLAY button is depressed, the take-up reel table turns first, then the pinch roller rotates. The reel table and pinch roller must not start turning at the same time.

**NOTE: Make certain that this operation is carried out by depressing the play button slowly without loading a tape.**

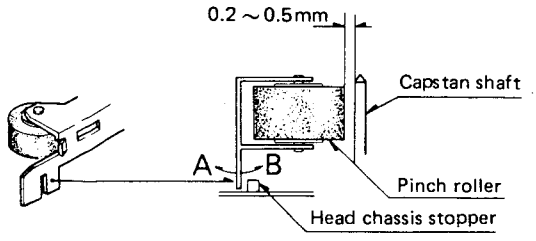
1. CHECKING FOR ADJUSTMENT

Slowly depress the PLAY button to start the take-up reel turning. Check whether or not the clearance between the pinch roller and capstan is 0.2 to 0.5 mm.

2. ADJUSTMENT

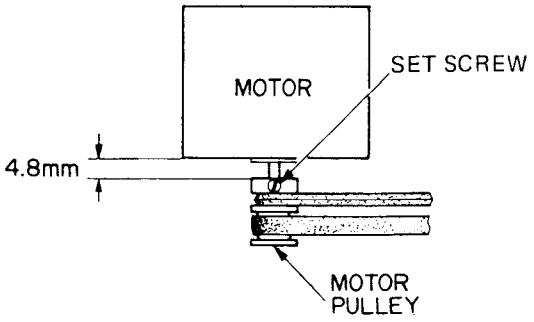
Bend the pinch roller bracket at the point that touches the head chassis stopper. In the line drawing, bending left reduces the clearance between the capstan and pinch roller.

**NOTE: Make certain that the pinch roller bracket does not touch the head chassis stopper in the play mode.**



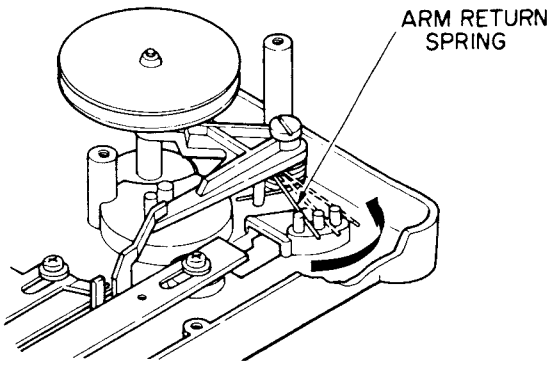

## 6.5 POSITIONING THE MOTOR PULLEY

Loosen the set screw and adjust the motor pulley position until the clearance between the pulley and motor is 4.8 mm as shown. Tighten the set screw.




## 6.6 ADJUSTING THE REOIND IDLER SIDE PRESSURE

Make certain that in the rewind mode, the rewind idler does not slip on the supply reel table when held by hand. If it slips, gradually change the hanging position of the rewind idler arm return spring on the chassis, in the direction of the arrow, until it ceases to slip.

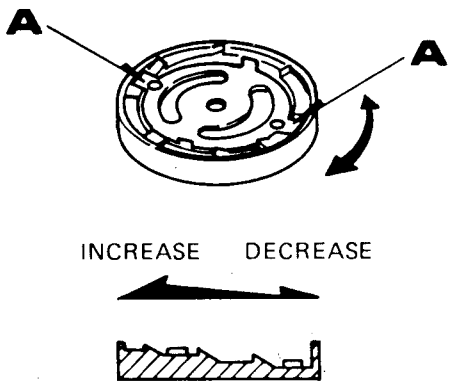


## 6.7 ADJUSTING THE PLAY TORQUE

Put the two pawls of the circular plate spring in a proper stepped position on the reel rest. The adjustable torque range is 40 to 70 g-cm.

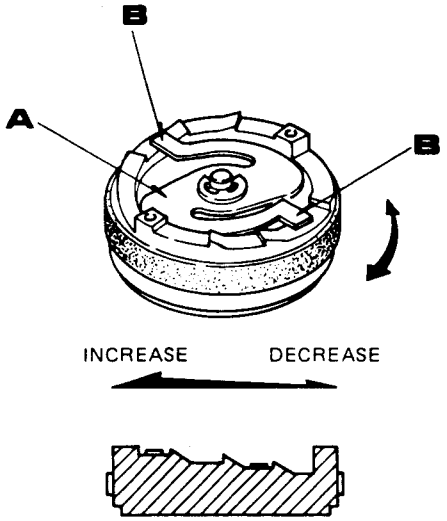
To increase the torque, put the pawls on a shallow step. For lower torque, put them on a deeper step.

- Checking the take-up clutch for sliding
  Make certain that the flywheel rotates freely when the reel table is locked. A flywheel should not revolve irregularly or stop.




## 6.8 ADJUSTING THE FAST FORWARD AND REWIND TORQUE

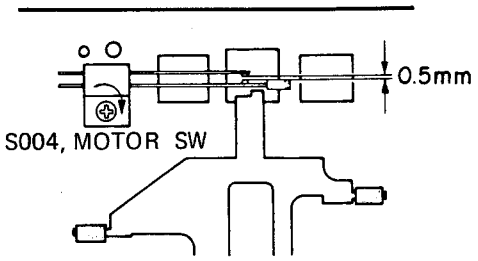
The fast forward and rewind idler has a torque adjust plate spring (part A in the line drawing), which has two pawls (part B) at its ends. Set the pawls in the proper step. To increase the torque, set the pawls in the shallowest step. For lower torque, set in the deepest step.




## 6.9 POSITIONING THE SWITCHES

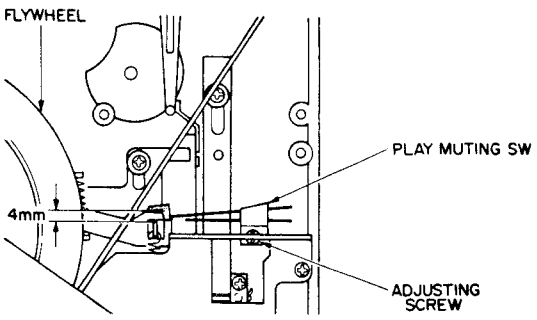
### 6.9.1 MOTOR SWITCH

Turn the motor switch in the direction of the arrow until it is screwed tight. Make certain that the contact gap is wider than 0.5 mm.




### 6.9.2 PLAY MUTING SWITCH

In the stop mode, loosen the screw holding the play muting switch and position that the clearance between its end tip and the play lever 4 mm.



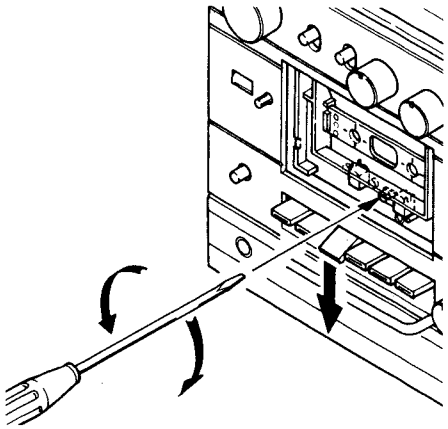
# 7. ELECTRICAL ADJUSTMENTS AND MEASUREMENTS

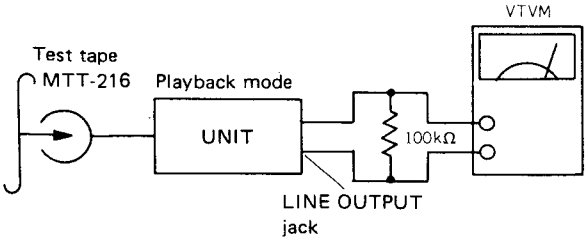
## 7.1 PRECAUTION FOR ADJUSTMENT AND MEASUREMENT

1. Whenever adjusting or measuring any circuit, wipe the heads clean with a soft cloth moistened with alcohol or carbon tetrachloride. Also be sure to demagnetize the heads, capstan, and similar parts.
2. The voltage at any electrical point may vary with the input signal, so measure the voltage under a non-signal condition.
3. Transistors are affected by microvoltage. Whenever measuring them, use a VTVM which has a high enough internal resistance and input sensitivity to eliminate errors in measurement.
4. In adjustment or measurement, set the TONE control to its mechanical center ("0") unless otherwise specified.
5. For measurements of output, connect a pure 3.2Ω resistor across the external speaker terminal and use a VTVM. Unless otherwise specified, adjust the VOLUME control for the standard output level, 50 mW (0.4V/3.2Ω).

## 7.2 AZIMUTH ADJUSTMENT

1. Set TAPE SELECTOR switch to NORMAL.
2. Reporduce the 10 kHz signal on test tape MTT-216 and turn the screw for azimuth adjustment so that output voltage becomes maximum.
3. When the maximum points of L and R channels are different, adjust it to the points where the output levels of the L and R channels are equal.
4. Be sure to apply paint to lock the screws after adjustment.



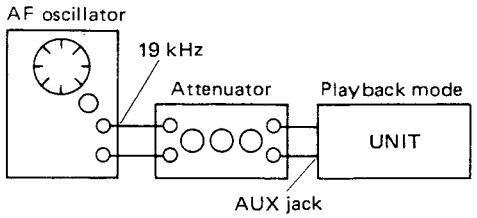



## 7.3 VU METER ADJUSTMENT

1. Set the unit to play mode.
2. Apply a 1 kHz, signal to AUX jack.
3. Connect the VTVM to 7P of Q209.
   Adjust the input level so that the VTVM reading is 580 mV.
4. Keeping the condition in item 3, adjust R307 so that the reading of Lch VU meter is 0.
5. Connect the VTVM to 7P of Q210.
   Adjust the input level so that the VTVM reading is 580 mV.
6. Keeping the condition in item 5, adjust R308 so that the reading of Rch VU meter is 0.

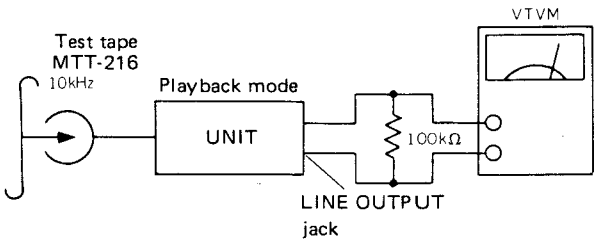
## 7.4 MPX FILTER ADJUSTMENT

1. Set the unit to play mode.
2. Apply a 19 kHz, signal to AUX jack.
3. Adjust L201(L) and L202(R) for minimum output level at the LINE OUTPUT jack.




## 7.5 PLAYBACK FREQUENCY RESPONSE ADJUSTMENT

1. Set the TAPE SELECTOR switch to NORMAL.
2. Reproduce the 315 Hz and 10 kHz on test tape MTT-216 and adjust R219 and R220 so that the level difference is 0 dB.




## 7.6 PLAYBACK LEVEL ADJUSTMENT

1. Set the TAPE SELECTOR switch to NORMAL.
2. Play the MTT-150 test tape. Adjust R245 and R246 so that the VU meters (G002) read "0".

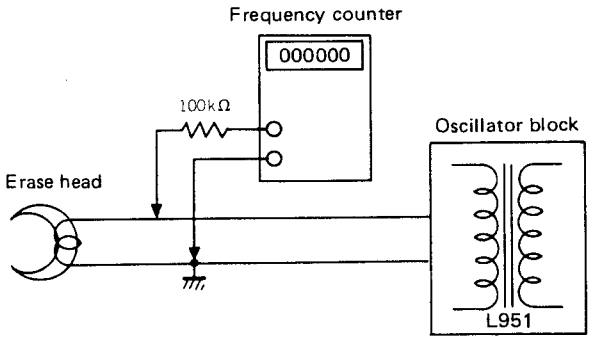
### 7.7 ARL BALANCE ADJUSTMENT

1. Set the unit to recording mode.
2. Set REC MODE switch to AUTO.
3. Apply a 1 kHz, 300 mV signal to the AUX jack.
4. Adjust R511 so that the readings on VU meters (G002) are similar for both Lch and Rch.
5. Apply a 1 kHz, −40 dBV signal to the MIC jack. Confirm that the difference between the Lch and Rch readings on the VU meters is within 4 graduation. If the difference is not as specified, readjust R375.

### 7.8 BIAS OSCILLATOR FREQUENCY ADJUSTMENT

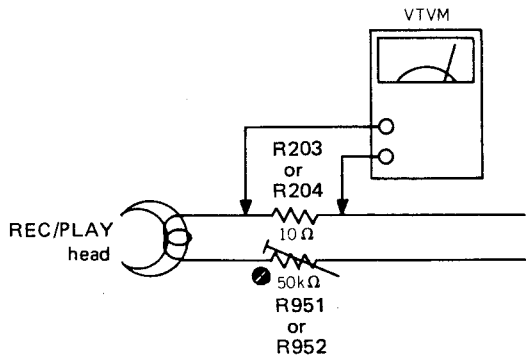
1. Set the unit to recording mode.
2. Adjust L951 so that when ISS switch is 2 position, the bias oscillator frequency becomes as follows.

47 kHz . . . . . PMS7004
100 kHz . . . . . PMS7004S



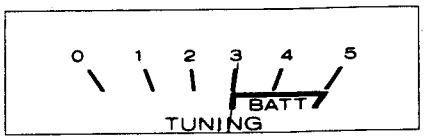

### 7.9 BIAS CURRENT ADJUSTMENT

1. Set the unit to recording mode.
2. Set the REC MODE switch to AUTO.
3. Set the TAPE SELECTOR switch to NORMAL.
4. Adjust R951 and R952 so that the voltage of both R203 and R204 (10Ω) entering the REC/PLAY head in series reads 3.5 mV.
5. When the TAPE SELECTOR switch is set to $CrO_2$, the voltage should be approx. 5 mV.



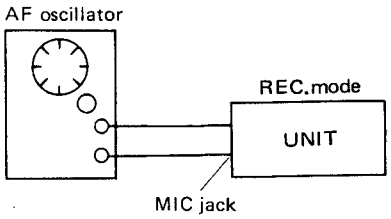

### 7.10 ADJUSTING BATTERY CHECK CIRCUIT

1. Connect calibrated 9.0V direct current power supply to the external DC power supply jack (DC12V) and set the unit to recording mode.
2. Adjust R801 so that the meter indicates the position shown below when the battery check switch is ON.



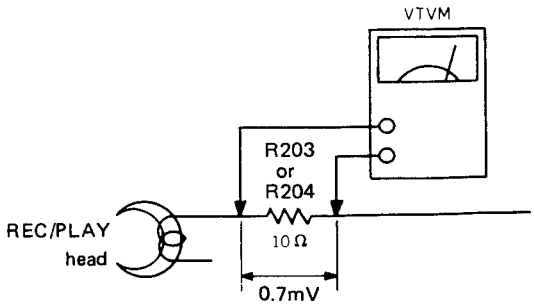

### 7.11 RECORDING MIC GAIN ADJUSTMENT

1. Set the unit to recording mode at tape position.
2. Set the REC mode switch to MANUAL.
3. Apply a 1 kHz, −72 dB signal to the MIC jack.
4. Set the RECORD LEVEL at Maximum position.
5. Adjust R227(L) or R228(R) until the reading of the VU meter (G002) is 0 dB.




### 7.12 RECORDING CURRENT ADJUSTMENT

1. Set the unit to recording mode.
2. Set the REC MODE switch to MANUAL.
3. Set the TAPE SELECTOR switch to NORMAL.
4. Apply a 1 kHz, 300 mV signal to AUX jack.
5. Remove lead to R954 to stop operation of the bias oscillation circuit.
6. Adjust R335 and R336 so that the voltage of R203 and R204 (10Ω) entering the REC/PLAY heads in series reads 0.7 mV.



## 8. ADJUSTMENT POINTS

**AUDIO**

- PMS7004/PMS7004S (COMMON)

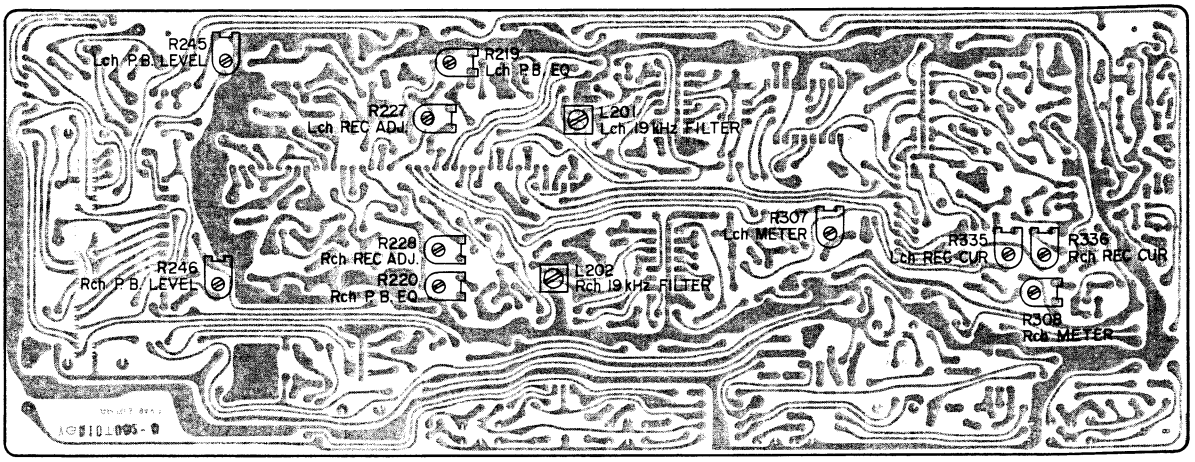



**Fig. 1. P200 Audio Adjustment Points**

**TUNER**

- *: FM/FM STEREO, ▭: PMS7004, [ ]: PMS7004S

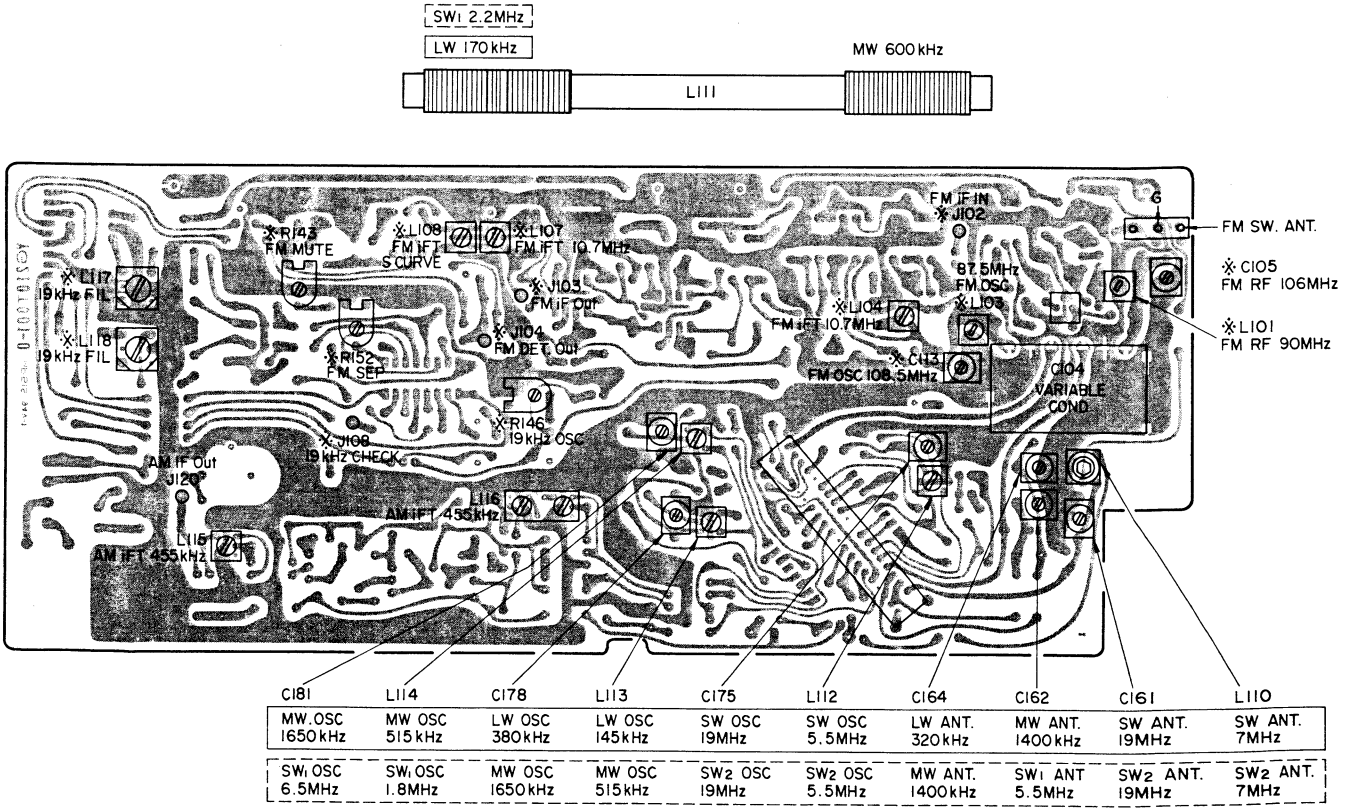



**Fig. 2. P100 Tuner Adjustment Points**

# 9. TUNER ADJUSTMENT

## 9.1 FM ADJUSTMENT PROCEDURE

(FUNCTION switch . . . . FM, MODE switch . . . . MONO)

| Procedure | Signal generator connection | Signal generator output | Tuning dial | Measurement instrument connection | Adjustment point | Remarks |
|---|---|---|---|---|---|---|
| 1 | Connect SG to J102 | 10.7 MHz Sweep | – | Connect oscilloscope vertical jack to J104 or ground (J109) through diode. | L104 L107 L108 | Rotate each core and adjust so that oscilloscope waveforms are highest and symmetrical on both sides. |
| 2 | Connect SG to J101 through the dummy antenna. | 87.5 MHz (Modulated) | 87.5 MHz (Maximum variable capacitor capacity) | Connect the output meter to the LINE OUTPUT jack. | OSC coil L103 | Adjust so that the output meter reads a maximum. |
| 3 | | 108.5 MHz (Modulated) | 108.5 MHz (Maximum variable capacitor capacity) | | Trimmer C113 | |
| 4 | Repeat procedures 2 and 3. | | | | | |
| 5 | Connect SG to J101 through the dummy antenna. | 90 MHz (Modulated) | 90 MHz | Connect the output meter to the LINE OUTPUT jack. | L101 | Adjust so that the output meter reads a maximum. |
| 6 | | 106 MHz (Modulated) | 106 MHz | | Trimmer C105 | |
| 7 | Repeat procedures 5 and 6. | | | | | |

NOTES: 1. Connect the negative (–) jack of the oscillator to the ground (– ground) of the unit.
2. Set oscillator output to 1 kHz, 40 kHz DEV.
3. Adjust oscillator output to obtain a minimum.

## 9.2 FM STEREO ADJUSTMENT PROCEDURE

(FUNCTION switch . . . . FM, MODE switch . . . . STEREO)

| Procedure | Signal generator connection | Signal generator output | Tuning dial | Measurement instrument connection | Adjustment point | Remarks |
|---|---|---|---|---|---|---|
| 1 | Connect SG to J101 through the dummy antenna. | – | 98 MHz | Connect frequency counter between J108 and ground (J109). | Preset resistor R146 | Adjust the frequency counter so that it comes to the mechanical center of 19 kHz. |
| 2 | | L Channel | | Connect output meter to LINE OUTPUT jack. | Preset resistor R152 | Adjust preset resistor so that output meter reading of R channel indicates minimum output. |
| 3 | | R Channel | | | | Adjust preset resistor so that output meter reading of L channel indicates minimum output. |
| 4 | Repeat procedures 2 and 3. | | | | | |

## 9.3 FM MUTING ADJUSTMENT PROCEDURE

(FUNCTION switch . . . . FM, MODE switch . . . . MONO)

| Procedure | Signal generator connection | Signal generator output | Tuning dial | Measurement instrument connection | Adjustment point | Remarks |
|---|---|---|---|---|---|---|
| 1 | Connect SG to J101 through the dummy antenna. | 98 MHz Set input level to approx. 30 dB S/N sensitivity. | 98 MHz | Connect output meter to LINE OUTPUT jack. | Preset resistor R143 | Adjust so that output waveforms do not change. |

## 9.4 AM ADJUSTMENT PROCEDURE (PMS7004)

(FUNCTION switch . . . . AM-MW)

| Procedure | Signal generator connection | Signal generator output | Tuning dial | Measurement instrument connection | Adjustment point | Remarks |
|---|---|---|---|---|---|---|
| 1 | Connect SG to J111 | 455 kHz Sweep ±35 kHz | — | Connect oscilloscope to J120 (ground lead to J109). | L116 L115 | Rotate each core and adjust so that oscilloscope waveforms are highest and symmetrical on both sides. |
| 2 | Radiate SG output to antenna coil through loop antenna. | 515 kHz (Modulated) | 515 kHz (Maximum variable capacitor capacity) | Connect output meter to LINE OUTPUT jack. | OSC coil L113 | Adjust so that the output meter indicates a maximum. |
| 3 | | 1,650 kHz (Modulated) | 1,650 kHz (Minimum variable capacitor capacity) | | Trimmer C178 | |
| 4 | Repeat procedures 2 and 3. | | | | | |
| 5 | Radiate SG output to antenna coil through loop antenna. | 600 kHz (Modulated) | 600 kHz | Connect output meter to LINE OUTPUT jack. | ANT coil L111 | Adjust so that the output meter indicates a maximum. |
| 6 | | 1,400 kHz (Modulated) | 1,400 kHz | | Trimmer C162 | |
| 7 | Repeat procedures 5 and 6. | | | | | |

NOTES: 1. Connect the negative (—) jack of the oscillator to ground (— ground) of the unit during adjustment.
2. Oscillator output should be 1 kHz with 30% modulation. 3. Adjust oscillator output to obtain a minimum.

(FUNCTION switch . . . . AM-LW)

| Procedure | Signal generator connection | Signal generator output | Tuning dial | Measurement instrument connection | Adjustment point | Remarks |
|---|---|---|---|---|---|---|
| 1 | Radiate SG output to antenna coil through loop antenna. | 145 kHz (Modulated) | 145 kHz (Maximum variable capacitor capacity) | Connect output meter to LINE OUTPUT jack. | OSC coil L114 | Adjust so that the output meter indicates a maximum. |
| 2 | | 380 kHz (Modulated) | 380 kHz (Minimum variable capacitor capacity) | | Trimmer C181 | |
| 3 | Repeat procedures 2 and 3. | | | | | |
| 4 | Radiate SG output to antenna coil through loop antenna. | 170 kHz (Modulated) | 170 kHz | Connect output meter to LINE OUTPUT jack. | ANT coil L111 | Adjust so that the output meter indicates a maximum. |
| 5 | | 320 kHz (Modulated) | 320 kHz | | Trimmer C164 | |
| 6 | Repeat procedures 5 and 6. | | | | | |

NOTES: 1. Connect the negative (—) jack of the oscillator to ground (— ground) of the unit during adjustment.
2. Oscillator output should be 1 kHz with 30% modulation. 3. Adjust oscillator output to obtain a minimum.

(FUNCTION switch . . . . AM-SW)

| Procedure | Signal generator connection | Signal generator output | Tuning dial | Measurement instrument connection | Adjustment point | Remarks |
|---|---|---|---|---|---|---|
| 1 | Radiate SG output to antenna coil through dummy antenna. (30 ohm plus 10 pF) | 5.5 MHz (Modulated) | 5.5 MHz (Maximum variable capacitor capacity) | Connect output meter to LINE OUTPUT jack. | OSC coil L112 | Adjust so that the output meter indicates a maximum. |
| 2 | | 19 MHz (Modulated) | 19 MHz (Minimum variable capacitor capacity) | | Trimmer C175 | |
| 3 | Repeat procedures 2 and 3. | | | | | |
| 4 | Radiate SG output to antenna coil through dummy antenna. | 7 MHz (Modulated) | 7 MHz | Connect output meter to LINE OUTPUT jack. | ANT coil L110 | Adjust so that the output meter indicates a maximum. |
| 5 | | 19 MHz (Modulated) | 19 MHz | | Trimmer C161 | |
| 6 | Repeat procedures 5 and 6. | | | | | |

NOTES: 1. Connect the negative (—) jack of the oscillator to ground (— ground) of the unit during adjustment.
2. Oscillator output should be 1 kHz with 30% modulation. 3. Adjust oscillator output to obtain a minimum.



## 9.5 AM ADJUSTMENT PROCEDURE (PMS7004S)

(FUNCTION switch . . . . AM-MW)

| Procedure | Signal generator connection | Signal generator output | Tuning dial | Measurement instrument connection | Adjustment point | Remarks |
|---|---|---|---|---|---|---|
| 1 | Connect SG to J112. | 455 kHz Sweep ±35 kHz | — | Connect oscilloscope to J120 (ground lead to J109). | L116 L115 | Rotate each core and adjust so that oscilloscope waveforms are highest and symmetrical on both sides. |
| 2 | Radiate SG output to antenna coil through loop antenna. | 515 kHz (Modulated) | 515 kHz (Maximum variable capacitor capacity) | Connect output meter to LINE OUTPUT jack. | OSC coil L114 | Adjust so that the output meter indicates a maximum. |
| 3 | | 1,650 kHz (Modulated) | 1,650 kHz (Minimum variable capacitor capacity) | | Trimmer C181 | |
| 4 | Repeat procedures 2 and 3. | | | | | |
| 5 | Radiate SG output to antenna coil through loop antenna. | 600 kHz (Modulated) | 600 kHz | Connect output meter to LINE OUTPUT jack. | ANT coil L111 | Adjust so that the output meter indicates a maximum. |
| 6 | | 1,400 kHz (Modulated) | 1,400 kHz | | Trimmer C164 | |
| 7 | Repeat procedures 5 and 6. | | | | | |

NOTES: 1. Connect the negative (—) jack of the oscillator to ground (— ground) of the unit during adjustment.
2. Oscillator output should be 1 kHz with 30% modulation. 3. Adjust oscillator output to obtain a minimum.

(FUNCTION switch . . . . AM-$SW_1$)

| Procedure | Signal generator connection | Signal generator output | Tuning dial | Measurement instrument connection | Adjustment point | Remarks |
|---|---|---|---|---|---|---|
| 1 | Radiate SG output to antenna coil through loop antenna. | 1.8 MHz (Modulated) | 1.8 MHz (Maximum variable capacitor capacity) | Connect output meter to LINE OUTPUT jack. | OSC coil L113 | Adjust so that the output meter indicates a maximum. |
| 2 | | 6.5 MHz (Modulated) | 6.5 MHz (Minimum variable capacitor capacity) | | Trimmer C178 | |
| 3 | Repeat procedures 2 and 3. | | | | | |
| 4 | Radiate SG output to antenna coil through loop antenna. | 2.2 MHz (Modulated) | 2.2 MHz | Connect output meter to LINE OUTPUT jack. | ANT coil L111 | Adjust so that the output meter indicates a maximum. |
| 5 | | 5.5 MHz (Modulated) | 5.5 MHz | | Trimmer C162 | |
| 6 | Repeat procedures 5 and 6. | | | | | |

NOTES: 1. Connect the negative (—) jack of the oscillator to ground (— ground) of the unit during adjustment.
2. Oscillator output should be 1 kHz with 30% modulation. 3. Adjust oscillator output to obtain a minimum.

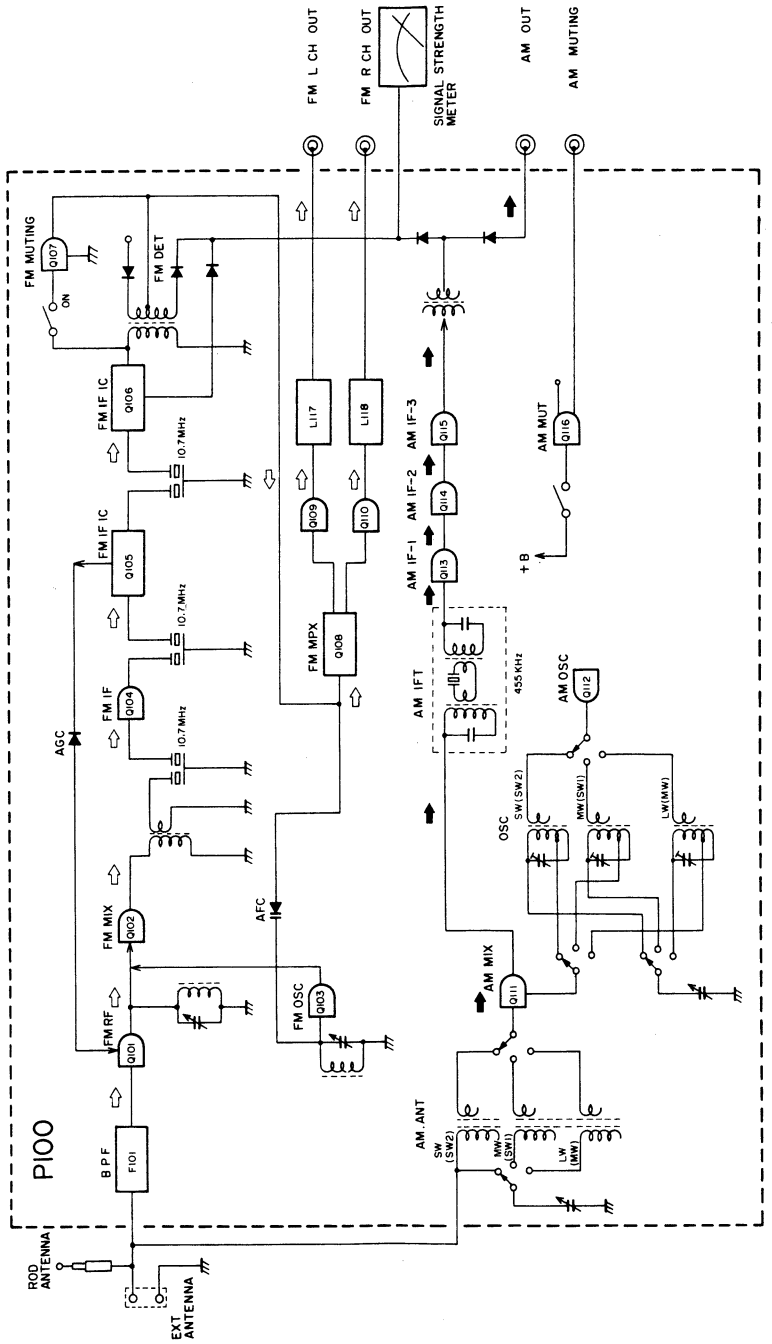
(FUNCTION switch . . . . AM-$SW_2$)

| Procedure | Signal generator connection | Signal generator output | Tuning dial | Measurement instrument connection | Adjustment point | Remarks |
|---|---|---|---|---|---|---|
| 1 | Radiate SG output to antenna coil through dummy antenna. | 5.5 MHz (Modulated) | 5.5 MHz (Maximum variable capacitor capacity) | Connect output meter to LINE OUTPUT jack. | OSC coil L112 | Adjust so that the output meter indicates a maximum. |
| 2 | | 19 MHz (Modulated) | 19 MHz (Minimum variable capacitor capacity) | | Trimmer C175 | |
| 3 | Repeat procedures 2 and 3. | | | | | |
| 4 | Radiate SG output to antenna coil through dummy antenna. | 7 MHz (Modulated) | 7 MHz | Connect output meter to LINE OUTPUT jack. | ANT coil L110 | Adjust so that the output meter indicates a maximum. |
| 5 | | 19 MHz (Modulated) | 19 MHz | | Trimmer C161 | |
| 6 | Repeat procedures 5 and 6. | | | | | |

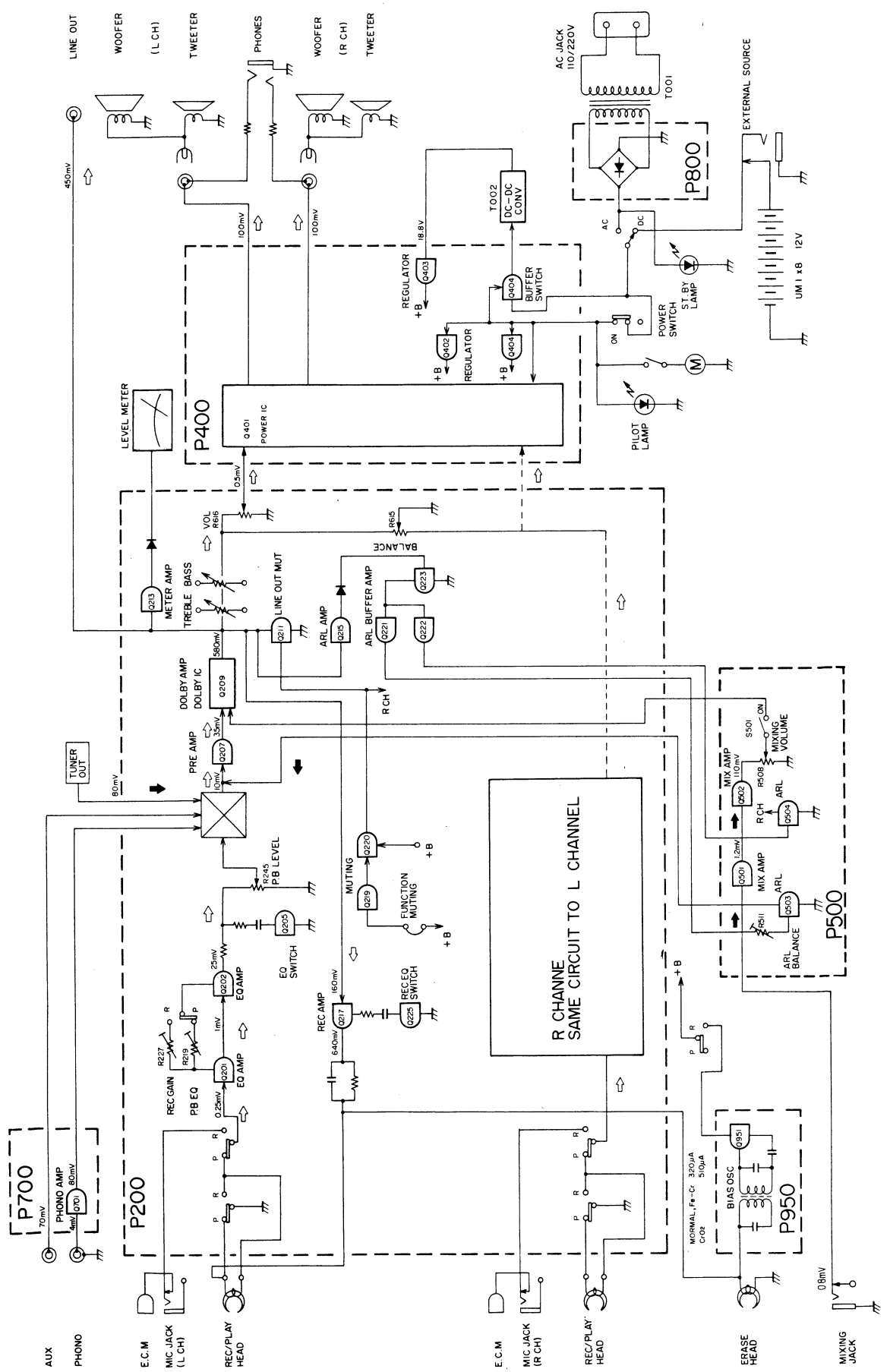
NOTES: 1. Connect the negative (—) jack of the oscillator to ground (— ground) of the unit during adjustment.
2. Oscillator output should be 1 kHz with 30% modulation. 3. Adjust oscillator output to obtain a minimum.

# 10. BLOCK DIAGRAM

## 10.1 TUNER BLOCK

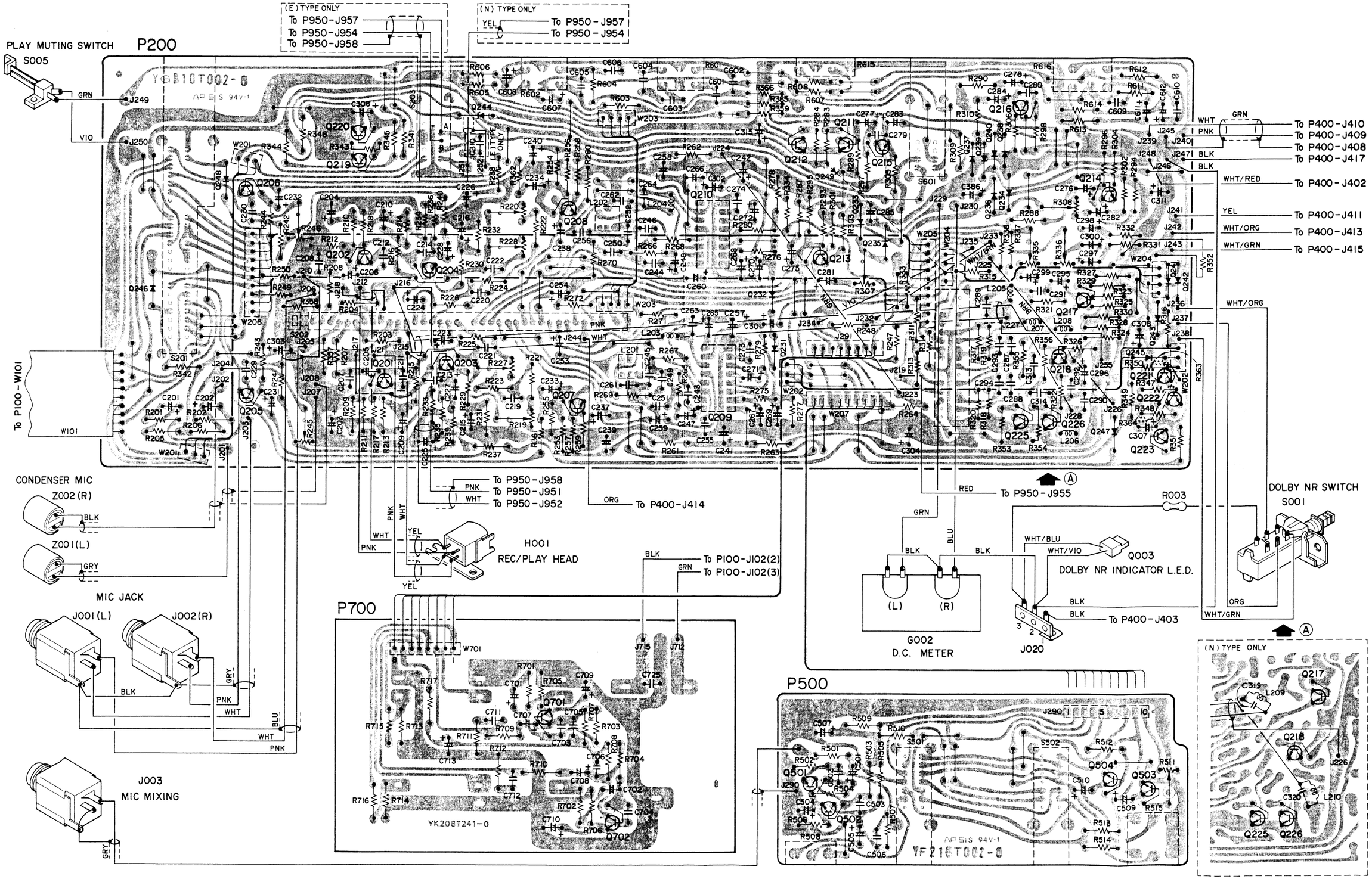



## 10.2 TAPE and AUDIO BLOCK

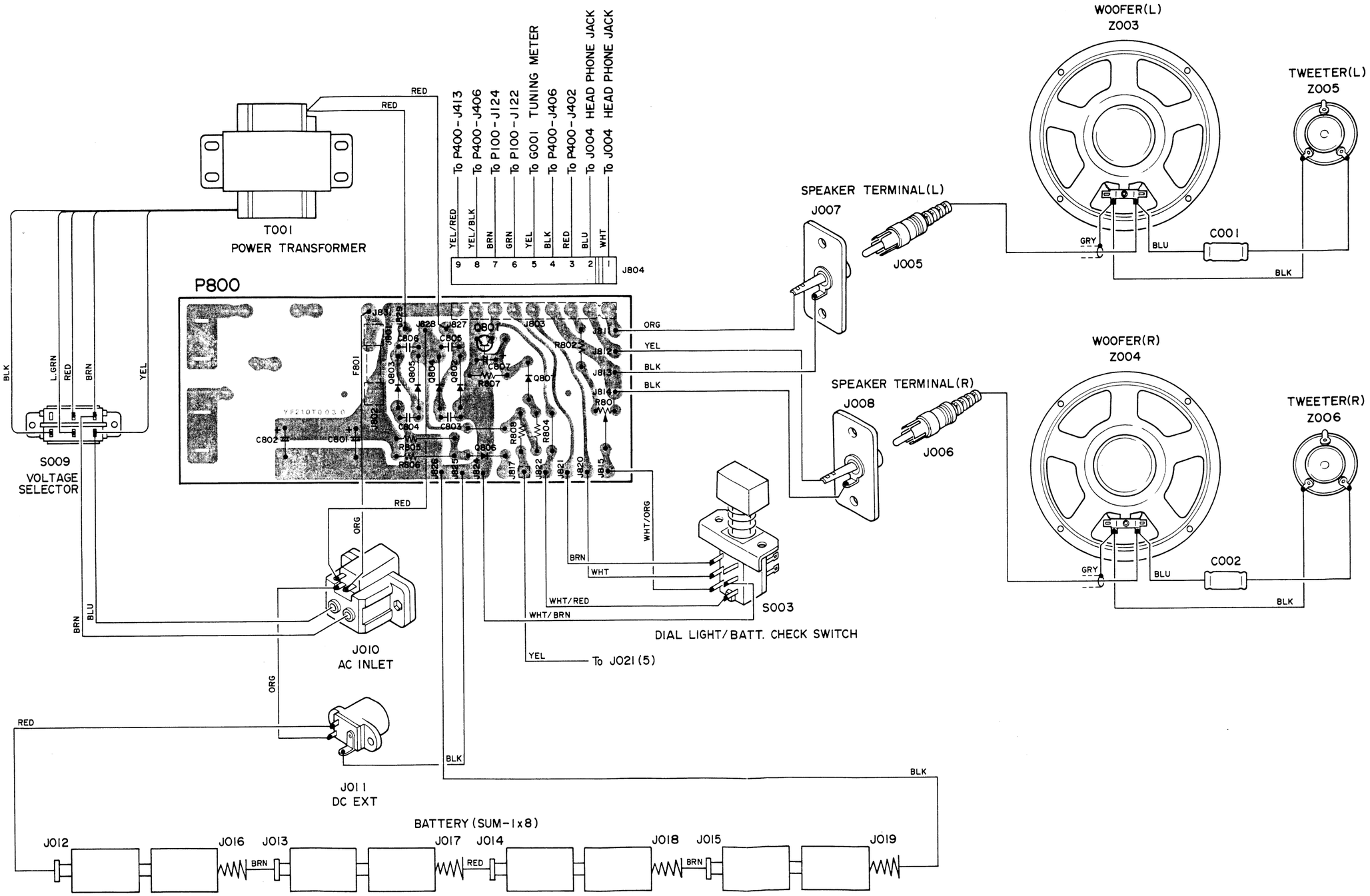


## 11. CIRCUIT BOARD DIAGRAM

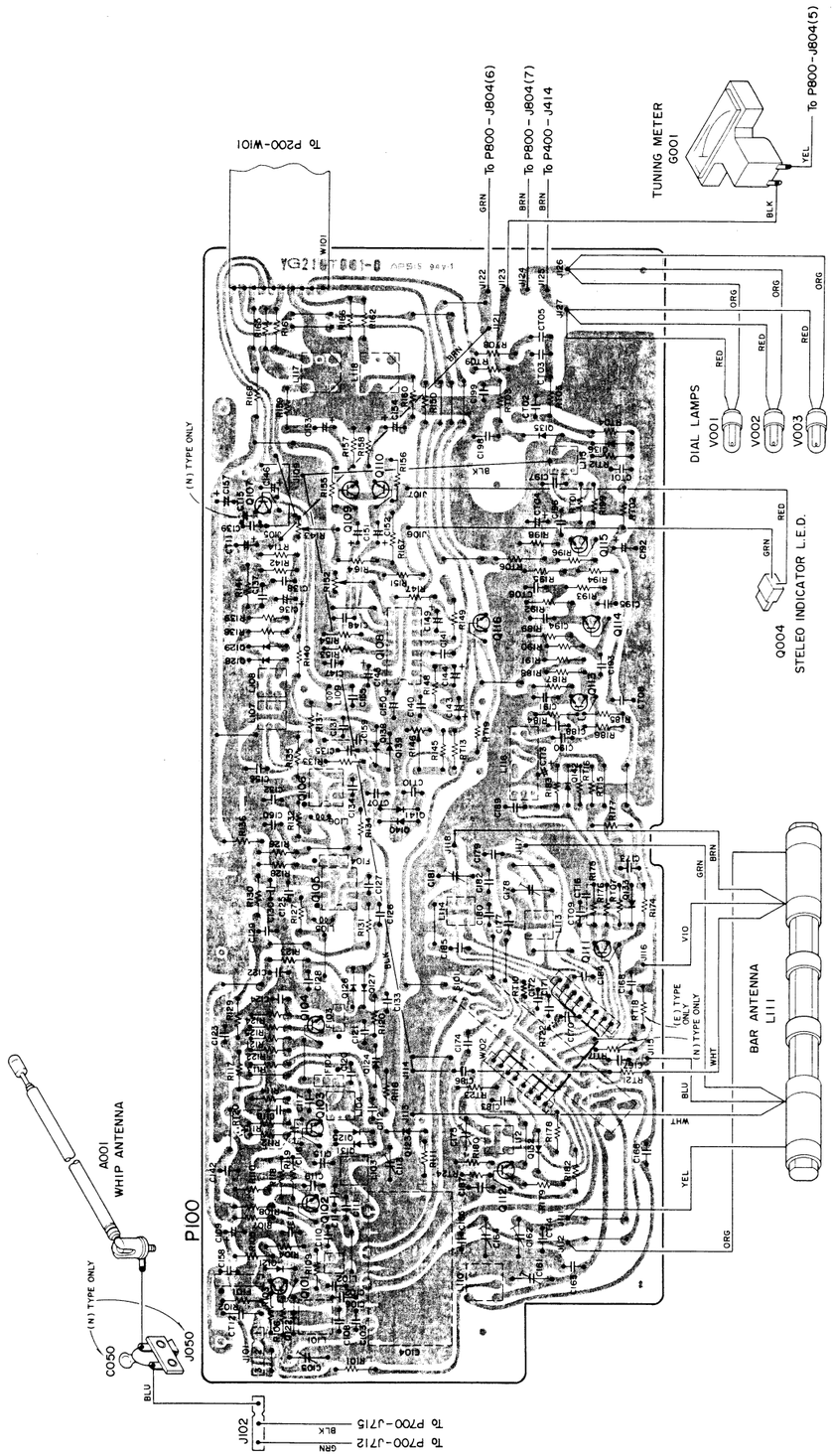
### 11.1 TAPE and AUDIO



## 11.2 POWER SUPPLY

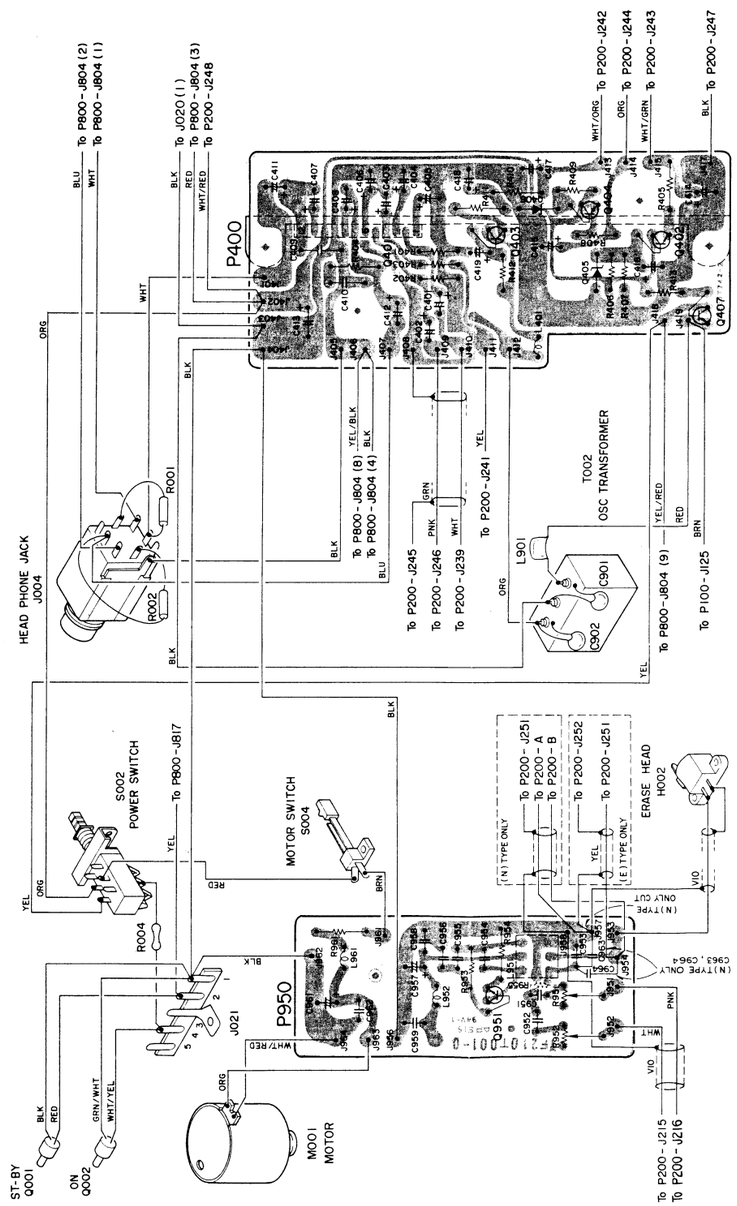


## 11.3 TUNER



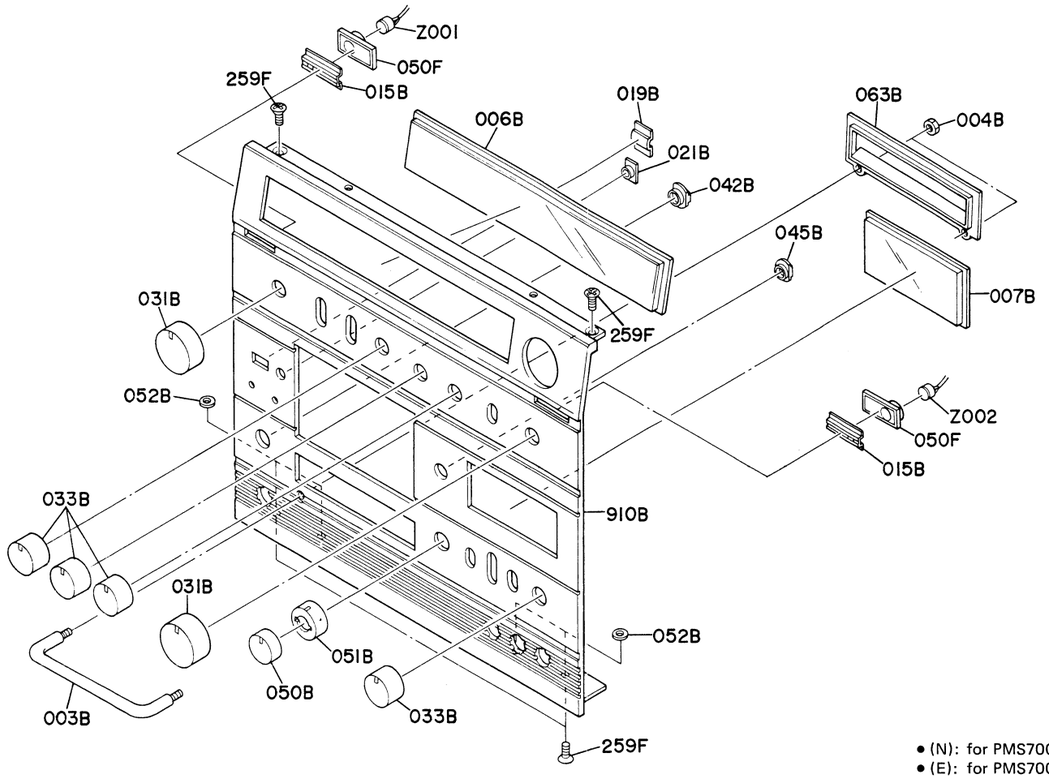



## 11.4 POWER AMP and TAPE BIAS OSC



# 12. EXPLODED VIEWS AND PARTS LIST

## 12.1 [P01-99] Front Escutcheon



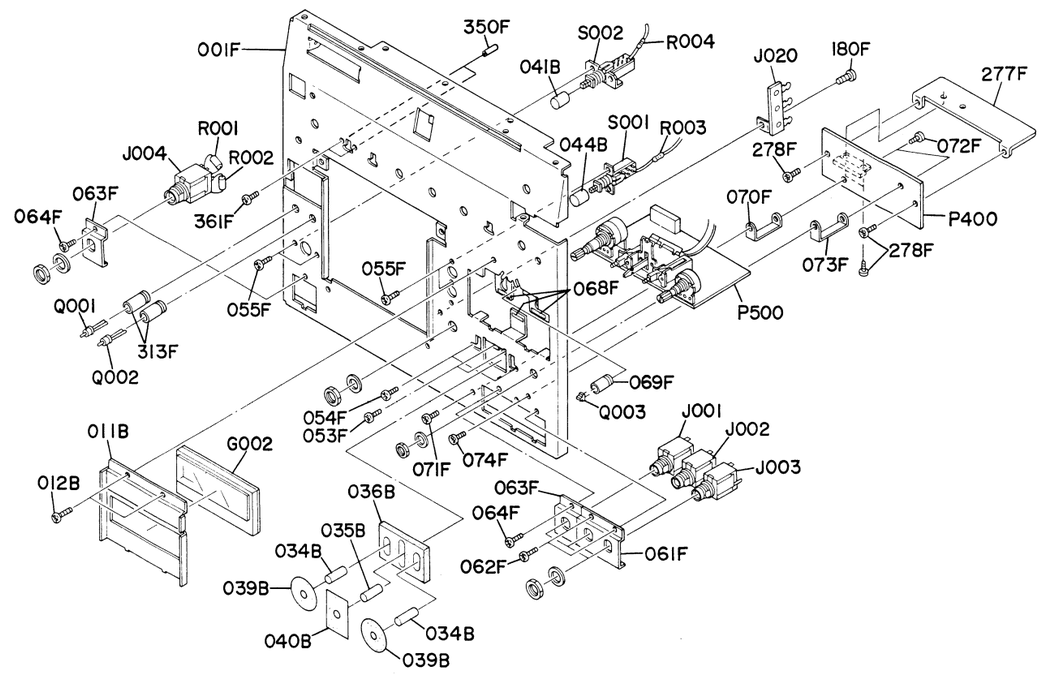

• (N): for PMS7004
• (E): for PMS7004S

| REF. DESIG. | Q'TY N | Q'TY E | PART NO. | DESCRIPTION |
|---|---|---|---|---|
| A | 1 | | 210T063400 | Front Panel Assembly |
| A1 | | 1 | 211T063400 | Front Panel Assembly |
| 003B | 1 | 1 | 4282051020 | Guide |
| 004B | 2 | 2 | 53110303A9 | Hexagon Nut |
| 006B | 1 | 1 | 4282158012 | Window, Dial |
| 007B | 1 | 1 | 4282158020 | Window, Meter |
| 015B | 2 | 2 | 4282063052 | Escutcheon, E.C.M. |
| 019B | 1 | 1 | 4123158032 | Window, Counter |
| 021B | 1 | 1 | 3448259110 | Bushing, Counter |
| 042B | 1 | 1 | 2978259012 | Bushing, Power |
| 045B | 1 | 1 | 3448259122 | Bushing, Dolby |
| 063B | 1 | 1 | 4282259012 | Bushing |
| 910B | 1 | | 210T063500 | Escutcheon, Front Panel |
| 910B | | 1 | 211T063500 | Escutcheon, Front Panel |

| REF. DESIG. | Q'TY N | Q'TY E | PART NO. | DESCRIPTION |
|---|---|---|---|---|
| 031B | 2 | 2 | 4197154050 | Knob, Vol/Function |
| 033B | 4 | 4 | 4282154020 | Knob |
| 050B | 1 | 1 | 4198154030 | Knob, Rec Level |
| 051B | 1 | 1 | 4198154040 | Knob, Rec Level |
| 052B | 4 | 4 | 59030805P0 | Washer |
| 050F | 2 | 2 | 4282271030 | Holder, E.C.M. |
| 259F | 4 | 4 | 51040306B9 | F.H.M. Screw F3 x 6 |
| Z001 | 1 | 1 | MS50090070 | Mic. Unit |
| Z002 | 1 | 1 | MS50090070 | Mic. Unit |



## 12.2 [P02-99] Front Chassis

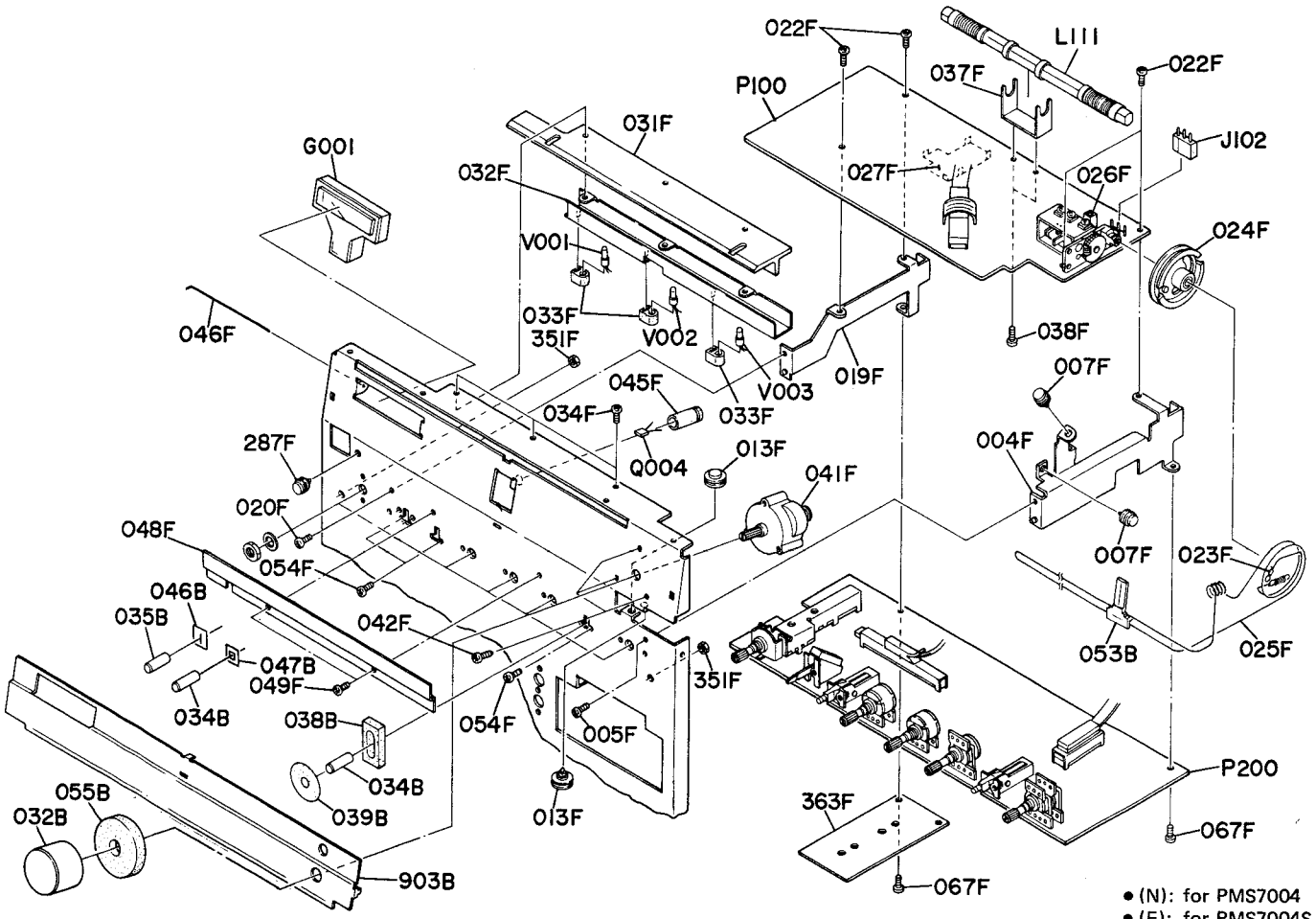



• (N): for PMS7004
• (E): for PMS7004S

| REF. DESIG. | Q'TY N | Q'TY E | PART NO. | DESCRIPTION |
|---|---|---|---|---|
| 011B | 1 | 1 | 4282063030 | Escutcheon, Meter |
| 012B | 2 | 2 | 51100306B9 | B.H.M. Screw B3 x 6 |
| 034B | 2 | 2 | 4282154032 | Knob. |
| 035B | 1 | 1 | 4282154043 | Knob, Tape Selector |
| 036B | 1 | 1 | 4282056012 | Buffer |
| 039B | 2 | 2 | 4282107032 | Sheet |
| 040B | 1 | 1 | 4282107052 | Sheet |
| 041B | 1 | 1 | 2259154040 | Knob, Power |
| 044B | 1 | 1 | 3448154130 | Knob, Dolby |
| 001F | 1 | 1 | 201T105010 | Chassis, Front |
| 053F | 2 | 2 | 51060305A9 | P.H.M. Screw P3 x 5 |
| 054F | 2 | 2 | 51060305A9 | P.H.M. Screw P3 x 5 |
| 055F | 4 | 4 | 51100306A9 | B.H.M. Screw B3 x 6 |
| 061F | 1 | 1 | 4282160060 | Bracket, Mic Jack |
| 062F | 2 | 2 | 51100306A9 | B.H.M. Screw B3 x 6 |
| 063F | 2 | 2 | 4282160070 | Bracket, Headphone |
| 064F | 2 | 2 | 51100306A9 | B.H.M. Screw B3 x 6 |
| 068F | 3 | 3 | 3426056020 | Buffer |
| 069F | 1 | 1 | 4214271022 | Holder |
| 070F | 1 | 1 | 4282160130 | Bracket |
| 071F | 1 | 1 | 51100306A9 | B.HM. Screw B3 x 6 |

| REF. DESIG. | Q'TY N | Q'TY E | PART NO. | DESCRIPTION |
|---|---|---|---|---|
| 072F | 2 | 2 | 51100306A9 | B.H.M. Screw B3 x 6 |
| 073F | 1 | 1 | 4282160130 | Bracket |
| 074F | 1 | 1 | 51100306A9 | B.H.M. Screw B3 x 6 |
| 180F | 1 | 1 | 51280306B0 | B.H. Tapped Screw B3 x 6 |
| 277F | 1 | 1 | 208T267010 | Heatsink |
| 278F | 4 | 4 | 51280306B0 | B.H. Tapped Screw B3 x 6 |
| 313F | 2 | 2 | 4279271012 | Holder |
| 350F | 2 | 2 | 210T101010 | Support |
| 361F | 2 | 2 | 51100312A9 | B.H.M. Screw B3 x 12 |
| J001 | 1 | 1 | YJ01001110 | Jack, Mic |
| J002 | 1 | 1 | YJ01001110 | Jack, Mic |
| J003 | 1 | 1 | YJ01001110 | Jack, Mixing |
| J004 | 1 | 1 | YJ01001210 | Jack, Headphone |
| J020 | 1 | 1 | YL01030230 | Terminal (3P) |
| G002 | 1 | 1 | IM12094010 | D.C. Meter |
| Q001 | 1 | 1 | HI10014030 | L.E.D. SLP-132B |
| Q002 | 1 | 1 | HI10014030 | L.E.D. SLP-132B |
| Q003 | 1 | 1 | HI10014020 | L.E.D. LN217RP |
| S001 | 1 | 1 | SP02010340 | Push Switch, Dolby |
| ⚠S002 | 1 | 1 | SP02010230 | Push Switch, Power |
| R001 | 1 | 1 | RC10101120 | 100Ω ±10% ½W |
| R002 | 1 | 1 | RC10101120 | 100Ω ±10% ½W |
| R003 | 1 | 1 | GD05331140 | 330Ω ±5% ¼W |
| R004 | 1 | 1 | GD05102140 | 1KΩ ±5% ¼W |

## 12.3 [P03-99] Front Bracket and Electrical Parts

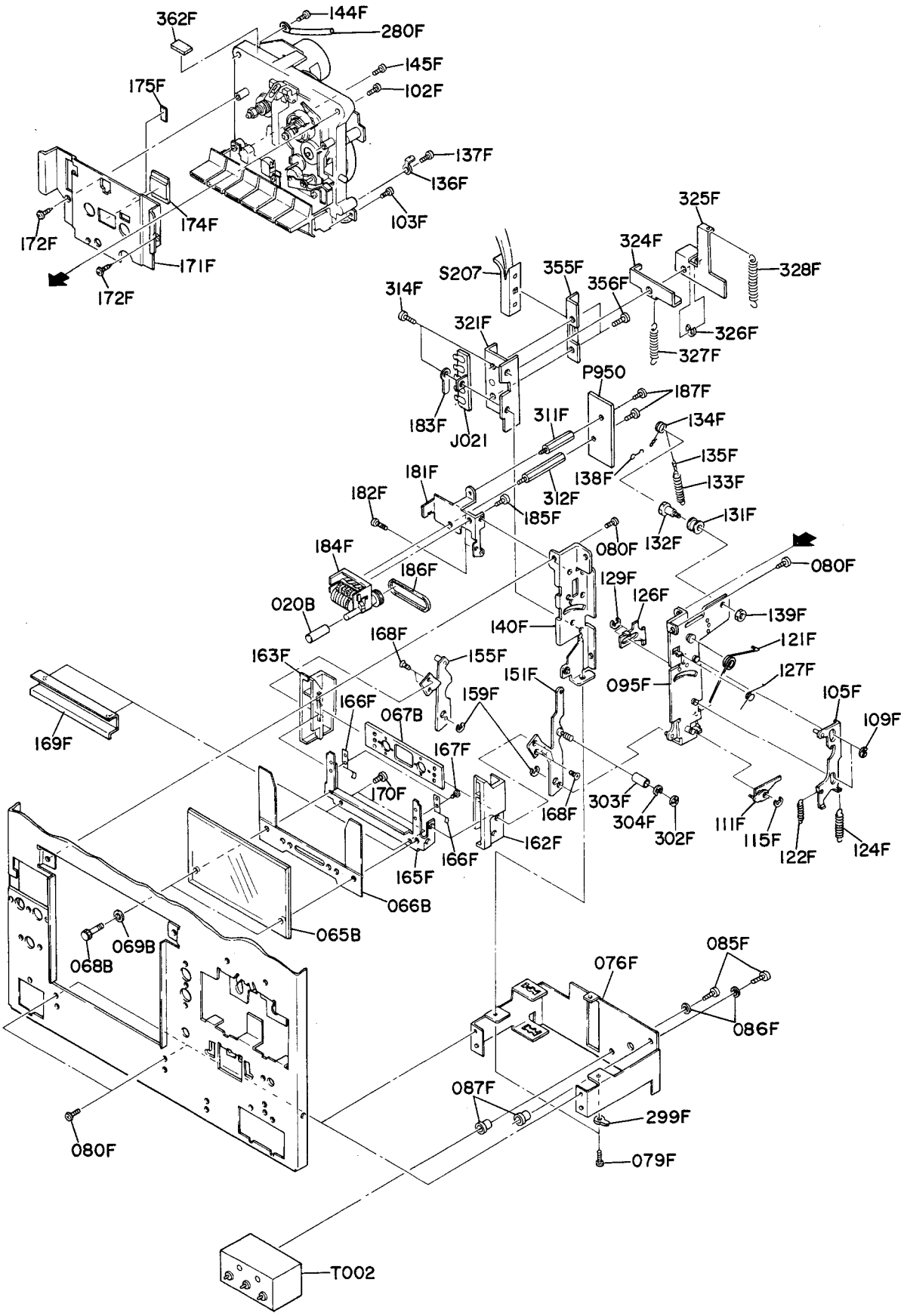



• (N): for PMS7004
• (E): for PMS7004S

| REF. DESIG. | Q'TY N | Q'TY E | PART NO. | DESCRIPTION |
|---|---|---|---|---|
| 032B | 1 | 1 | 4282154050 | Knob, Tuning |
| 034B | 2 | 2 | 4282154032 | Knob |
| 035B | 1 | 1 | 4282154043 | Knob |
| 038B | 1 | 1 | 4282056032 | Buffer |
| 039B | 1 | 1 | 4282107032 | Sheet |
| 046B | 1 | 1 | 201T107010 | Sheet |
| 047B | 1 | 1 | 210T107020 | Sheet |
| 053B | 1 | 1 | 4282103010 | Pointer |
| 055B | 1 | 1 | 4282056040 | Buffer |
| 903B | 1 | | 4282302040 | Dial Plate |
| 903B | | 1 | 4282302050 | Dial Plate |
| 004F | 1 | 1 | 4282160012 | Bracket, (R) |
| 005F | 1 | 1 | 51100306A9 | B.H.M. Screw B3 x 6 |
| 007F | 2 | 2 | 2276262500 | Pulley |
| 013F | 2 | 2 | 2286262500 | Pulley |
| 019F | 1 | 1 | 4282160020 | Bracket, (L) |
| 020F | 1 | 1 | 51100306A9 | B.H.M. Screw B3 x 6 |
| 022F | 4 | 4 | 51100306A9 | B.H.M. Screw B3 x 6 |
| 023F | 1 | 1 | 56302030G0 | Eyelet |
| 024F | 1 | 1 | 4282159012 | Drum |
| 025F | 1 | 1 | 72040805A0 | String (140) |
| 026F | 1 | 1 | 3620109010 | Shield |
| 027F | 1 | 1 | 4136109040 | Shield |
| 031F | 1 | 1 | 4282158030 | Window, Dial |
| 032F | 1 | 1 | 4282274012 | Reflector |
| 033F | 3 | 3 | 4123259010 | Bushing |

| REF. DESIG. | Q'TY N | Q'TY E | PART NO. | DESCRIPTION | | |
|---|---|---|---|---|---|---|
| 034F | 3 | 3 | 51102605A0 | B.H.M. Screw | B2.6 x 5 | |
| 037F | 1 | 1 | 3435271010 | Holder | | |
| 038F | 2 | 2 | 51102605A0 | B.H.M. Screw | B2.6 x 5 | |
| 041F | 1 | 1 | 4282273012 | Flywheel, Tuning | | |
| 042F | 3 | 3 | 51280308B0 | B.H. Tapped Screw | B3 x 8 | |
| 045F | 1 | 1 | 4214271022 | Holder | | |
| 046F | 1 | 1 | 4282114010 | Stopper | | |
| 048F | 1 | 1 | 4282051010 | Guide | | |
| 049F | 2 | 2 | 51100306A9 | B.H.M. Screw | B3 x 6 | |
| 054F | 3 | 3 | 51060305A9 | P.H.M. Screw | P3 x 5 | |
| 067F | 2 | 2 | 51100306A9 | B.H.M. Screw | B3 x 6 | |
| 287F | 1 | 1 | 2276262500 | Pulley | | |
| 351F | 2 | 2 | 53110303A9 | Hexagon Nut | | |
| 363F | 1 | 1 | 208T109010 | Shield | | |
| G001 | 1 | 1 | IM11052010 | D.C. Meter, Tuning | | |
| ⚠V001 | 1 | 1 | IN10140070 | Lamp | 110mA | 14V |
| ⚠V002 | 1 | 1 | IN10140070 | Lamp | 110mA | 14V |
| ⚠V003 | 1 | 1 | IN10140070 | Lamp | 110mA | 14V |
| J102 | 1 | 1 | YJ06001040 | Jack (3P) | | |
| Q004 | 1 | 1 | HI10014020 | L.E.D. | LN217RP | |
| L111 | 1 | | LF11400972 | Antenna Coil | | |
| L111 | | 1 | LF11400980 | Antenna Coil | | |

## 12.4 [P04-99] Associated Mechanism for Cassette Tape Operation

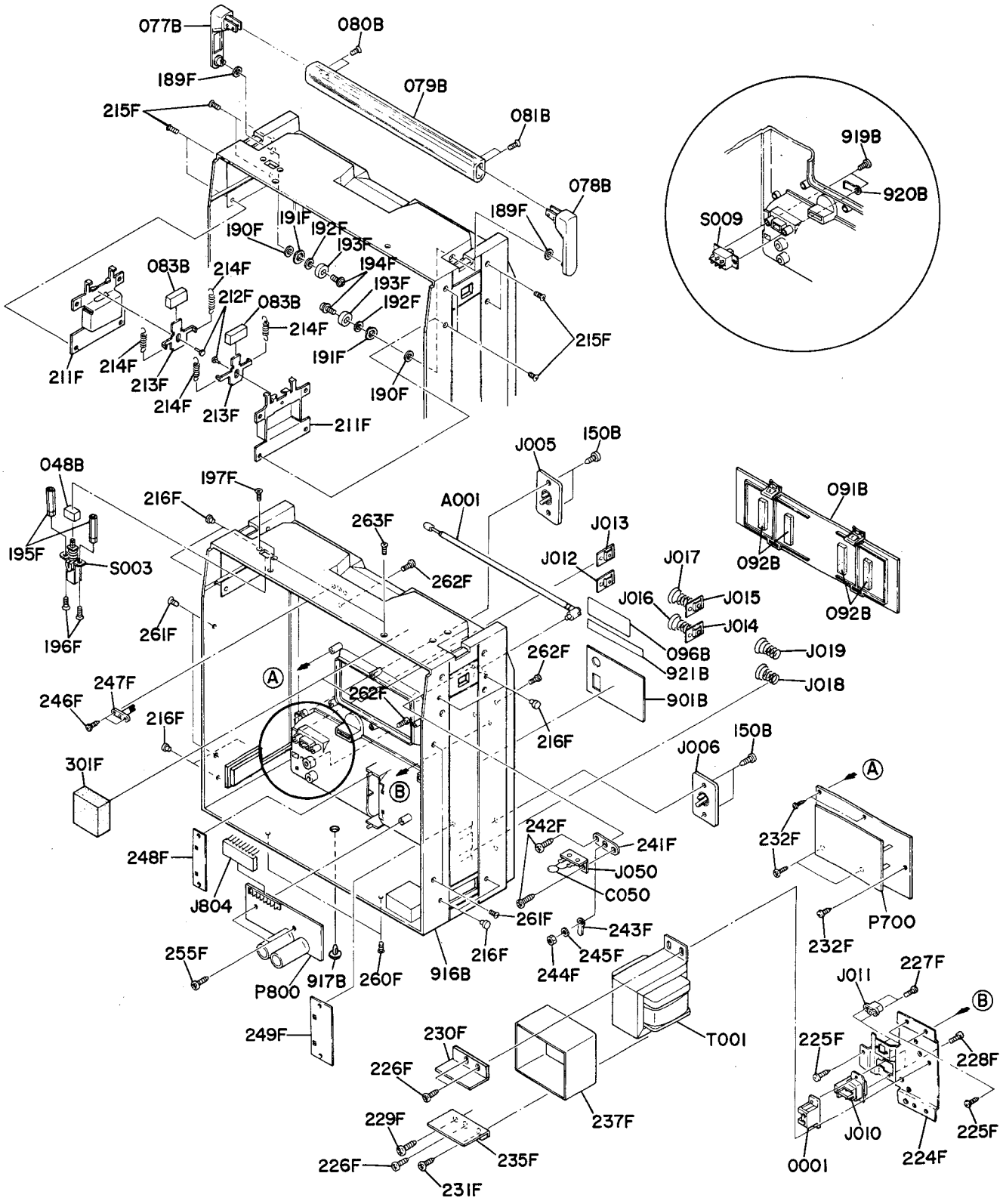


• (N): for PMS7004
• (E): for PMS7004S

| REF. DESIG. | Q'TY N | Q'TY E | PART NO. | DESCRIPTION |
|---|---|---|---|---|
| 020B | 1 | 1 | 3448067090 | Cap, Counter |
| 065B | 1 | 1 | 4276158014 | Window |
| 066B | 1 | 1 | 4276063030 | Escutcheon |
| 067B | 1 | 1 | 4276063040 | Escutcheon |
| 068B | 2 | 2 | 4276112010 | Shaft |
| 069B | 2 | 2 | 59046502G9 | Washer |
| 076F | 1 | 1 | 4282160037 | Bracket |
| 079F | 2 | 2 | 51100306A9 | B.H.M. Screw B3 x 6 |
| 080F | 4 | 4 | 51100306A9 | B.H.M. Screw B3 x 6 |
| 085F | 2 | 2 | 51100308A9 | B.H.M. Screw B3 x 8 |
| 086F | 2 | 2 | 59030810P1 | Washer |
| 087F | 2 | 2 | 2219259032 | Bush |
| 095F | 1 | 1 | 4265160523 | Bracket, K (R) |
| 102F | 1 | 1 | 51100308A9 | B.H.M. Screw B3 x 8 |
| 103F | 1 | 1 | 51100306A9 | B.H.M. Screw B3 x 6 |
| 105F | 1 | 1 | 4265258512 | Hook, Door (K) |
| 109F | 2 | 2 | 64000200R0 | RG Ring, E Type |
| 111F | 1 | 1 | 4265002522 | Arm, Inter Lock (K) |
| 115F | 1 | 1 | 64002500R0 | RG Ring, E Type |
| 121F | 1 | 1 | 4265115030 | Spring, Lock |
| 122F | 1 | 1 | 4265115043 | Spring |
| 124F | 1 | 1 | 4197115030 | Spring |
| 126F | 1 | 1 | 4265354012 | Lever |
| 127F | 1 | 1 | 4265115070 | Spring |
| 129F | 2 | 2 | 64000200R0 | RG Ring, E Type |
| 131F | 1 | 1 | 4197262010 | Pulley |
| 132F | 1 | 1 | 4197112040 | Shaft |
| 133F | 1 | 1 | 4197115020 | Spring |
| 134F | 1 | 1 | 72081604A0 | String (20) |
| 135F | 1 | 1 | 56382540G0 | Eyelet |
| 136F | 1 | 1 | 62031650W0 | Lug |
| 137F | 1 | 1 | 51280306B0 | B.H. Tapped Screw B3 x 6 |
| 138F | 1 | 1 | 4197258033 | Hook |

| REF. DESIG. | Q'TY N | Q'TY E | PART NO. | DESCRIPTION |
|---|---|---|---|---|
| 139F | 1 | 1 | 53110303A9 | Hexagon Nut |
| 140F | 1 | 1 | 4265160512 | Bracket, K (L) |
| 144F | 1 | 1 | 51100308A9 | B.H.M. Screw B3 x 8 |
| 145F | 1 | 1 | 51100306A9 | B.H.M. Screw B3 x 6 |
| 151F | 1 | 1 | 4265002550 | Arm, K (R) |
| 155F | 1 | 1 | 4265002540 | Arm, K (L) |
| 159F | 2 | 2 | 64000200R0 | RG Ring, E Type |
| 162F | 1 | 1 | 4265271014 | Holder (R) |
| 163F | 1 | 1 | 4265271024 | Holder (L) |
| 165F | 1 | 1 | 4265160110 | Bracket |
| 166F | 2 | 2 | 4265115050 | Spring |
| 167F | 2 | 2 | 5106260550 | P.H.M. Screw P2.6 x 5 |
| 168F | 4 | 4 | 5104260550 | F.H.M. Screw F2.6 x 5 |
| 169F | 1 | 1 | 4276053013 | Cover |
| 170F | 2 | 2 | 51380206T0 | P.H. Tapped Screw P2 x 6 |
| 171F | 1 | 1 | 4265053022 | Cover, Mecha |
| 172F | 2 | 2 | 51382606K0 | P.H. Tapped Screw P2.6 x 6 |
| 174F | 1 | 1 | 4197158010 | Window |
| 175F | 1 | 1 | 4265118010 | Spacer |
| 181F | 1 | 1 | 4282160122 | Bracket |
| 182F | 2 | 2 | 51100305A9 | B.H.M. Screw B3 x 5 |
| 183F | 1 | 1 | 62031650W0 | Lug |
| 184F | 1 | 1 | 4197052010 | Counter |
| 185F | 1 | 1 | 51100305A9 | B.H.M. Screw B3 x 5 |
| 186F | 1 | 1 | 4197264012 | Belt |
| 187F | 2 | 2 | 51100306A9 | B.H.M. Screw B3 x 6 |
| 280F | 1 | 1 | 4220005020 | Clamper |
| 299F | 1 | 1 | 62031650W0 | Lug |
| 302F | 1 | 1 | 64020200Q0 | RG Ring, CS Type |
| 303F | 1 | 1 | 4265055010 | Collar |
| 304F | 1 | 1 | 64000200R0 | RG Ring, E Type |
| 311F | 1 | 1 | 208T101012 | Support |
| 312F | 1 | 1 | 4679101010 | Support |
| 314F | 2 | 2 | 51100306B9 | B.H.M. Screw B3 x 6 |
| 321F | 1 | 1 | 4282160522 | Bracket |
| 324F | 1 | 1 | 201T354010 | Lever |
| 325F | 1 | 1 | 201T354020 | Lever |
| 326F | 1 | 1 | 64000400R0 | RG Ring, E Type |
| 327F | 1 | 1 | 201T115010 | Spring |
| 328F | 1 | 1 | 201T115020 | Spring |
| 355F | 1 | 1 | 4282160170 | Bracket |
| 356F | 2 | 2 | 51100305A9 | B.H.M. Screw B3 x 5 |
| 362F | 1 | 1 | 207T303010 | Mask |
| J021 | 1 | 1 | YL01050110 | Terminal (5P) |
| T002 | 1 | 1 | TC10500010 | OSC Transformer, DC-DC Converter |
| S207 | 1 | 1 | SB12200010 | Remote Wire for REC/Play Switch |

## 12.5 [P05-99] Rear Case and Battery Case

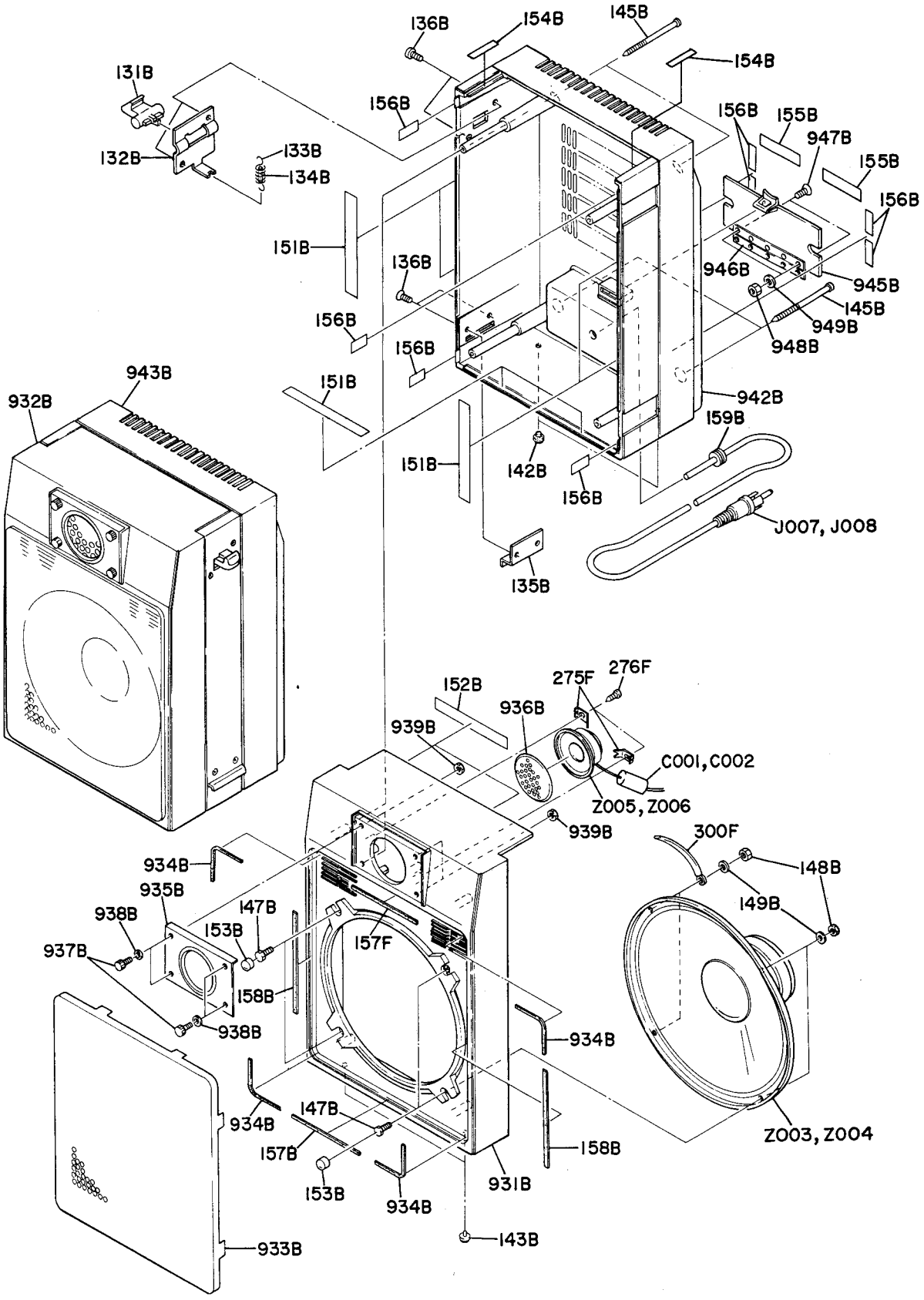


• (N): for PMS7004
• (E): for PMS7004S

| REF. DESIG. | Q'TY N | Q'TY E | PART NO. | DESCRIPTION |
|---|---|---|---|---|
| B | 1 | 1 | 210T257400 | Lid Assembly, Rear |
| 077B | 1 | 1 | 4282104010 | Retainer |
| 078B | 1 | 1 | 4282104010 | Retainer |
| 079B | 1 | 1 | 4282253010 | Handle |
| 080B | 2 | 2 | 5110306S9 | B.H.M. Screw B3 x 6 |
| 081B | 2 | 2 | 5110306S9 | B.H.M. Screw B3 x 6 |
| 083B | 2 | 2 | 4282154012 | Knob |
| 916B | 1 | 1 | 210T257010 | Lid, Rear |
| 917B | 1 | 1 | 2965005010 | Clamper |
| 919B | 2 | 2 | 5110314S9 | F.H.M. Screw F3 x 14 |
| 920B | 1 | 1 | 203T114010 | Stopper |
| 921B | 1 | 1 | 4240861010 | Label |
| 189F | 2 | 2 | 59071105G9 | Washer |
| 190F | 2 | 2 | 5401070010 | Flat Washer, S |
| 191F | 2 | 2 | 54130800Q0 | Wave Washer |
| 192F | 2 | 2 | 59071105G9 | Washer |
| 193F | 2 | 2 | 207T118010 | Spacer |
| 194F | 2 | 2 | 51480306A9 | F. Washer Screw 3 x 6 |
| 195F | 2 | 2 | 4282101040 | Support |
| 196F | 2 | 2 | 51040305A9 | F.H.M. Screw F3 x 5 |
| 197F | 2 | 2 | 5114020650 | O.C.H.M. Screw 2 x 6 |
| 211F | 2 | 2 | 207T160123 | Bracket |
| 212F | 2 | 2 | 207T112050 | Shaft |
| 213F | 2 | 2 | 207T354030 | Lever |
| 214F | 4 | 4 | 207T115040 | Lever |
| 215F | 8 | 8 | 51870308U0 | O.C.H.M. Screw M3 x 8 |
| 216F | 8 | 8 | 207T056010 | Buffer |
| C | 1 | 1 | 4282257470 | Battery Lid Assembly |
| 091B | 1 | 1 | 4282257030 | Lid, Battery |
| 092B | 4 | 4 | 3411056050 | Buffer |
| 048B | 1 | 1 | 2904154023 | Knob, Dial Light |
| 096B | 1 | 1 | 3333861022 | Label |
| 150B | 4 | 4 | 51280308U0 | B.H. Tapped Screw B3 x 8 |
| 901B | 1 | | 201T265010 | Indicator |
| 901B | | 1 | 211T265010 | Indicator |
| 224F | 1 | 1 | 4282160043 | Bracket |
| 225F | 3 | 3 | 51280408B0 | B.H. Tapped Screw B4 x 8 |
| 226F | 3 | 3 | 51280308B0 | B.H. Tapped Screw B3 x 8 |
| 227F | 2 | 2 | 51060206A0 | P.H.M. Screw P2 x 6 |
| 228F | 2 | 2 | 51062610A0 | P.H.M. Screw P2.6 x 10 |
| 229F | 1 | 1 | 51280412B0 | B.H. Tapped Screw B4 x 12 |
| 230F | 1 | 1 | 4282104043 | Retainer |
| 231F | 1 | 1 | 51280312B0 | B.H. Tapped Screw B3 x 12 |
| 232F | 5 | 5 | 51280308B0 | B.H. Tapped Screw B3 x 8 |
| 235F | 1 | 1 | 4282104052 | Retainer |
| 237F | 1 | 1 | 208T109030 | Shield |
| 241F | 1 | 1 | 4282104030 | Retainer |

| REF. DESIG. | Q'TY N | Q'TY E | PART NO. | DESCRIPTION |
|---|---|---|---|---|
| 242F | 2 | 2 | 51280308B0 | B.H. Tapped Screw B3 x 8 |
| 243F | 1 | 1 | 62051870W0 | Lug |
| 244F | 1 | 1 | 53110503A9 | Hexagon Nut |
| 245F | 1 | 1 | 54040502N0 | Spring Washer |
| 246F | 2 | 2 | 51280308B0 | B.H. Tapped Screw B3 x 8 |
| 247F | 1 | 1 | 4282271020 | Holder |
| 248F | 1 | 1 | 4282053040 | Cover |
| 249F | 1 | 1 | 4282053050 | Cover |
| 255F | 2 | 2 | 51280308B0 | B.H. Tapped Screw B3 x 8 |
| 260F | 2 | 2 | 5114030859 | O.C.H.M. Screw 3 x 8 |
| 261F | 4 | 4 | 5114030859 | O.C.H.M. Screw 3 x 8 |
| 262F | 3 | 3 | 5110306S9 | B.H.M. Screw B3 x 6 |
| 263F | 2 | 2 | 5114030859 | O.C.H.M. Screw 3 x 8 |
| 301F | 2 | 2 | 4182056020 | Buffer |
| 0001 | 1 | 1 | 3370053010 | Cover, AC Inlet |
| A001 | 1 | 1 | YR06080030 | Whip Antenna |
| C050 | 1 | | DD17470010 | Ceramic Cap. 47pF ±20% 250V |
| J005 | 1 | 1 | YT02010182 | Terminal, Jack Board |
| J006 | 1 | 1 | YT02010182 | Terminal, Jack Board |
| ⚠ J010 | 1 | 1 | YJ04000500 | Jack, AC Inlet |
| J011 | 1 | 1 | YJ04000550 | Jack, EXT DC |
| J012 | 1 | 1 | YL12010710 | Terminal (+) |
| J013 | 1 | 1 | YL12010710 | Terminal (+) |
| J014 | 1 | 1 | YL12010710 | Terminal (+) |
| J015 | 1 | 1 | YL12010710 | Terminal (+) |
| J016 | 1 | 1 | YL11010090 | Terminal (–) |
| J017 | 1 | 1 | YL11010090 | Terminal (–) |
| J018 | 1 | 1 | YL11010090 | Terminal (–) |
| J019 | 1 | 1 | YL11010090 | Terminal (–) |
| J050 | 1 | | YL01020080 | Terminal, 2P |
| ⚠ T001 | 1 | 1 | TS16005140 | Power Transformer |
| J804 | 1 | 1 | YJ06001430 | Jack (9P) |
| S003 | 1 | 1 | SP02010422 | Push Switch, Dial Light/Batt. |
| ⚠ S009 | 1 | 1 | SS02020510 | Slide Switch 110V/220V |

## 12.6 [P06-99] Speaker Box



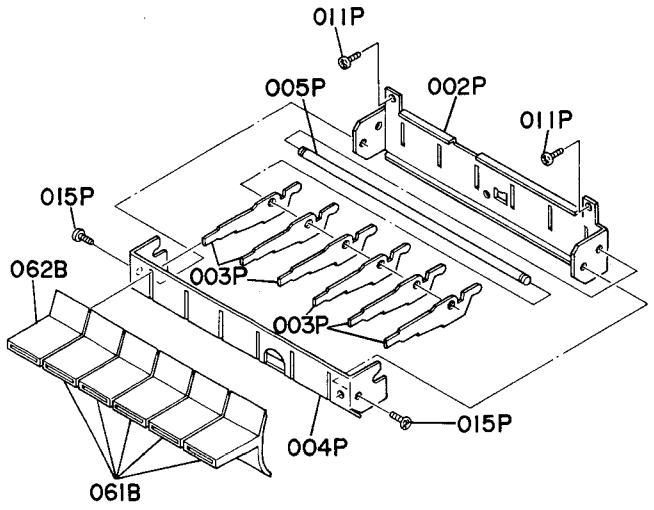
• (N): for PMS7004
• (E): for PMS7004S

| REF. DESIG. | Q'TY N | Q'TY E | PART NO. | DESCRIPTION |
|---|---|---|---|---|
| D | 1 | 1 | 210T064400 | Case Assembly, Speaker (R) |
| 143B | 2 | 2 | 3441057010 | Leg |
| 147B | 4 | 4 | 52010415S9 | H. Head Bolt 4 x 15 |
| 152B | 2 | 2 | 4282107060 | Sheet |
| 153B | 4 | 4 | 4282118022 | Spacer |
| 157B | 2 | 2 | 4282056050 | Buffer |
| 158B | 2 | 2 | 4282056060 | Buffer |
| 931B | 1 | 1 | 210T064010 | Case |
| 933B | 1 | 1 | 4282202012 | Net |
| 934B | 4 | 4 | 4282107040 | Sheet |
| 935B | 1 | 1 | 4282063042 | Escutcheon |
| 936B | 1 | 1 | 4282202050 | Net |
| 937B | 4 | 4 | 51214079E9 | L.K. Head Screw |
| 938B | 4 | 4 | 59035402G9 | Washer |
| 939B | 4 | 4 | 53110301A9 | Hexagon Nut |
| E | 1 | 1 | 210T064410 | Case Assembly, Speaker (L) |
| 143B | 2 | 2 | 3441057010 | Leg |
| 147B | 4 | 4 | 52010415S9 | H. Head Bolt 4 x 15 |
| 152B | 2 | 2 | 4282107060 | Sheet |
| 153B | 4 | 4 | 4282118022 | Spacer |
| 157B | 2 | 2 | 4282056050 | Buffer |
| 158B | 2 | 2 | 4282056060 | Buffer |
| 932B | 1 | 1 | 210T064020 | Case |
| 933B | 1 | 1 | 4282202012 | Net |
| 934B | 4 | 4 | 4282107040 | Sheet |
| 935B | 1 | 1 | 4282063042 | Escutcheon |
| 936B | 1 | 1 | 4282202050 | Net |
| 937B | 4 | 4 | 51214079E9 | L.K. Head Screw |
| 938B | 4 | 4 | 59035402G9 | Washer |
| 939B | 4 | 4 | 53110301A9 | Hexagon Nut |
| F | 1 | 1 | 210T257420 | Lid Assembly, Speaker (R) |
| 131B | 1 | 1 | 207T258010 | Hook |
| 132B | 1 | 1 | 207T160132 | Bracket |
| 133B | 1 | 1 | 207T115032 | Spring |
| 134B | 1 | 1 | 207T056040 | Buffer |
| 135B | 1 | 1 | 207T104020 | Retainer |
| 136B | 4 | 4 | 51870310U0 | O.C.H.M. Screw B M3 x 10 |
| 142B | 2 | 2 | 3441057010 | Leg |
| 154B | 2 | 2 | 4282107070 | Sheet |
| 155B | 2 | 2 | 4282107070 | Sheet |
| 156B | 8 | 8 | 4282107080 | Sheet |
| 942B | 1 | 1 | 4282257120 | Lid |
| 945B | 1 | 1 | 4282257040 | Lid, Speaker Wire |
| 946B | 1 | 1 | 2366153012 | Hinge |
| 947B | 2 | 2 | 5114020650 | O.C.H.M. Screw 2 x 6 |
| 948B | 2 | 2 | 53110203H0 | Hexagon Nut |
| 949B | 2 | 2 | 54020201S0 | Washer |
| 159B | 1 | 1 | 1988259100 | Bushing |

| REF. DESIG. | Q'TY N | Q'TY E | PART NO. | DESCRIPTION |
|---|---|---|---|---|
| G | 1 | 1 | 210T257430 | Lid Assembly, Speaker (L) |
| 131B | 1 | 1 | 207T258010 | Hook |
| 132B | 1 | 1 | 207T160132 | Bracket |
| 133B | 1 | 1 | 207T115032 | Spring |
| 134B | 1 | 1 | 207T056040 | Buffer |
| 135B | 1 | 1 | 207T104020 | Retainer |
| 136B | 4 | 4 | 51870310U0 | O.C.H.M. Screw B M3 x 10 |
| 142B | 2 | 2 | 3441057010 | Leg |
| 154B | 2 | 2 | 4282107070 | Sheet |
| 155B | 2 | 2 | 4282107070 | Sheet |
| 156B | 8 | 8 | 4282107080 | Sheet |
| 943B | 1 | 1 | 4282257150 | Lid |
| 945B | 1 | 1 | 4282257040 | Lid, Speaker Wire |
| 946B | 1 | 1 | 2366153012 | Hinge |
| 947B | 2 | 2 | 5114020650 | O.C.H.M. Screw 2 x 6 |
| 948B | 2 | 2 | 53110203H0 | Hexagon Nut |
| 949B | 2 | 2 | 54020201S0 | Washer |
| 159B | 1 | 1 | 1988259100 | Bushing |
| 145B | 8 | 8 | 51400370T0 | B.H. Tapped Screw |
| 148B | 8 | 8 | 53110401A9 | Hexagon Nut |
| 149B | 8 | 8 | 54020401A0 | Flat Washer, P. |
| 151B | 12 | 12 | 4282107060 | Sheet |
| 275F | 4 | 4 | 4170005010 | Clamper |
| 276F | 4 | 4 | 51280308B0 | B.H. Tapped Screw B3 x 8 |
| 300F | 4 | 4 | 4220005040 | Clamper |
| J007 | 1 | 1 | YB01500060 | Connective Cord |
| J008 | 1 | 1 | YB01500060 | Connective Cord |
| Z003 | 1 | 1 | QK02002010 | Speaker, Woofer 3.2Ω |
| Z004 | 1 | 1 | QK02002010 | Speaker, Woofer 3.2Ω |
| Z005 | 1 | 1 | QK00502050 | Speaker, Tweeter 4Ω |
| Z006 | 1 | 1 | QK00502050 | Speaker, Tweeter 4Ω |
| C001 | 1 | 1 | EQ47505020 | Elect Cap. 4.7μF 50V |
| C002 | 1 | 1 | EQ47505020 | Elect Cap. 4.7μF 50V |

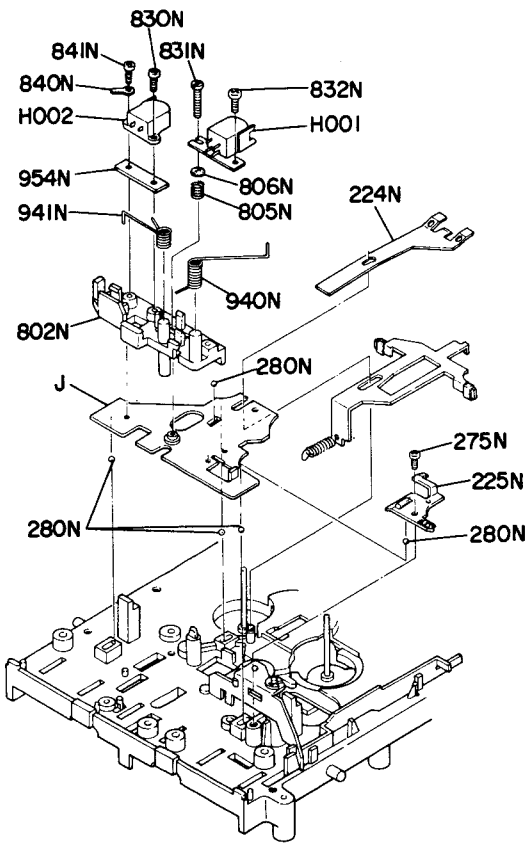
## 12.7 [P07-99] Buttons for Tape Mechanism Operation

- (N): for PMS7004
- (E): for PMS7004S



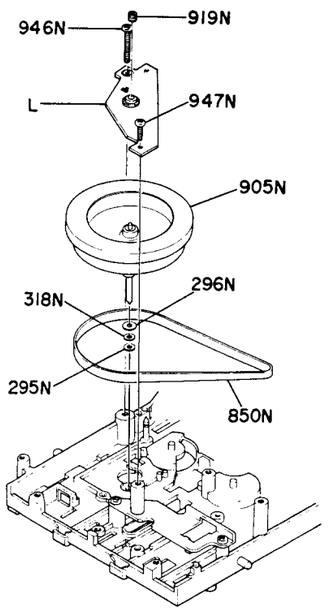

| REF. DESIG. | Q'TY N | Q'TY E | PART NO. | DESCRIPTION | |
|---|---|---|---|---|---|
| 061B | 5 | 5 | 4276270030 | Button | |
| 062B | 1 | 1 | 4276270040 | Button | |
| 002P | 1 | 1 | 4380160015 | Bracket | |
| 003P | 6 | 6 | 4380354070 | Lever | |
| 004P | 1 | 1 | 4380051014 | Guide | |
| 005P | 1 | 1 | 4380112030 | Shaft | |
| 011P | 2 | 2 | 5130031080 | P.H. Tapped Screw | P3 x 10 |
| 015P | 2 | 2 | 51062603A0 | P.H.M. Screw | P2.6 x 3 |

## 12.8 [P08-99] Head Chassis




| REF. DESIG. | Q'TY N | Q'TY E | PART NO. | DESCRIPTION | |
|---|---|---|---|---|---|
| J | 1 | 1 | 4380105410 | Chassis, Head | |
| 224N | 1 | 1 | 4380115130 | Spring | |
| 225N | 1 | 1 | 4367115172 | Spring | |
| 275N | 1 | 1 | 5130030880 | P.H. Tapped Screw | P3 x 8 |
| 280N | 5 | 5 | 6102001070 | Ball | |
| 802N | 1 | 1 | 4367160016 | Bracket | |
| 805N | 1 | 1 | 4383115030 | Spring | |
| 806N | 1 | 1 | 3444118070 | Spacer | |
| 830N | 1 | 1 | 51100210A0 | B.H.M. Screw | B2 x 10 |
| 831N | 1 | 1 | 51190210A2 | Pin | |
| 832N | 1 | 1 | 51100210A0 | B.H.M. Screw | B2 x 10 |
| 840N | 1 | 1 | 6202103080 | Lug | |
| 841N | 1 | 1 | 51100212A0 | B.H.M. Screw | B2 x 12 |
| 940N | 1 | 1 | 4367115380 | Spring | |
| 941N | 1 | 1 | 4367115053 | Spring | |
| 954N | 1 | 1 | 4367118070 | Spacer | |
| H001 | 1 | 1 | LH42851050 | Rec/Play Head | |
| H002 | 1 | 1 | LH31000490 | Erase Head | |

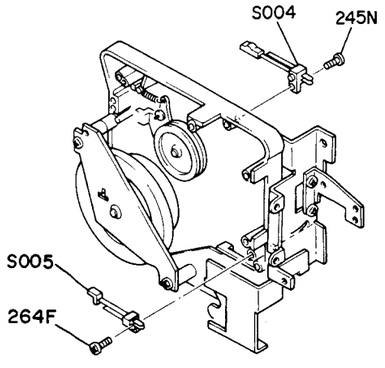
## 12.9 [P09-99] Flywheel




• (N): for PMS7004
• (E): for PMS7004S

| REF. DESIG. | Q'TY N | Q'TY E | PART NO. | DESCRIPTION |
|---|---|---|---|---|
| L | 1 | 1 | 4380104400 | Retainer Assembly, Flywheel |
| 295N | 1 | 1 | 59264702G9 | Washer |
| 296N | 1 | 1 | 59260702G9 | Washer |
| 318N | 1 | 1 | 59264705G9 | Washer |
| 850N | 1 | 1 | 4380264032 | Belt |
| 905N | 1 | 1 | 4380273502 | Flywheel |
| 919N | 1 | 1 | 3483164020 | Adjuster |
| 946N | 1 | 1 | 51300325B0 | P.H. Tapped Screw P3 x 25 |
| 947N | 1 | 1 | 51100308A9 | B.H.M. Screw B3 x 8 |

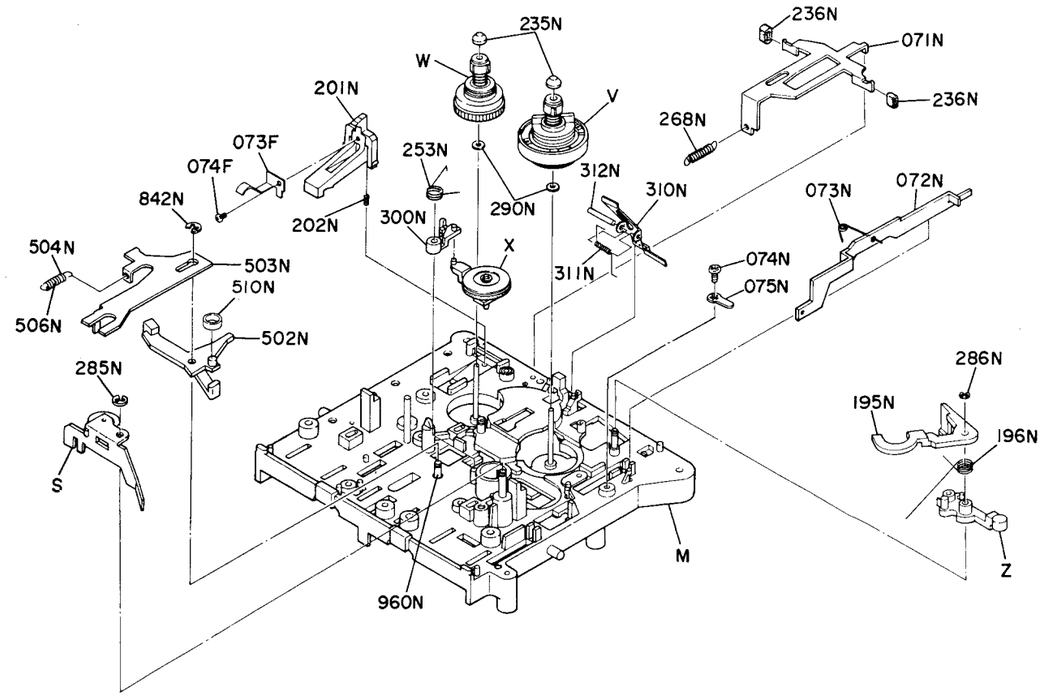
## 12.10 [P10-99] Switch Location for Tape Mechanism Operation




| REF. DESIG. | Q'TY N | Q'TY E | PART NO. | DESCRIPTION |
|---|---|---|---|---|
| 264F | 1 | 1 | 51400208P0 | B.H. Tapped Screw B2 x 8 |
| 245N | 1 | 1 | 51302608B0 | P.H. Tapped Screw P2.6 x 8 |
| S004 | 1 | 1 | SM01010680 | Mini Switch, Motor |
| S005 | 1 | 1 | SM01010660 | Mini Switch, Play Muting |



## 12.11 [P11-99] Parts Assembled on the Top of the Chassis

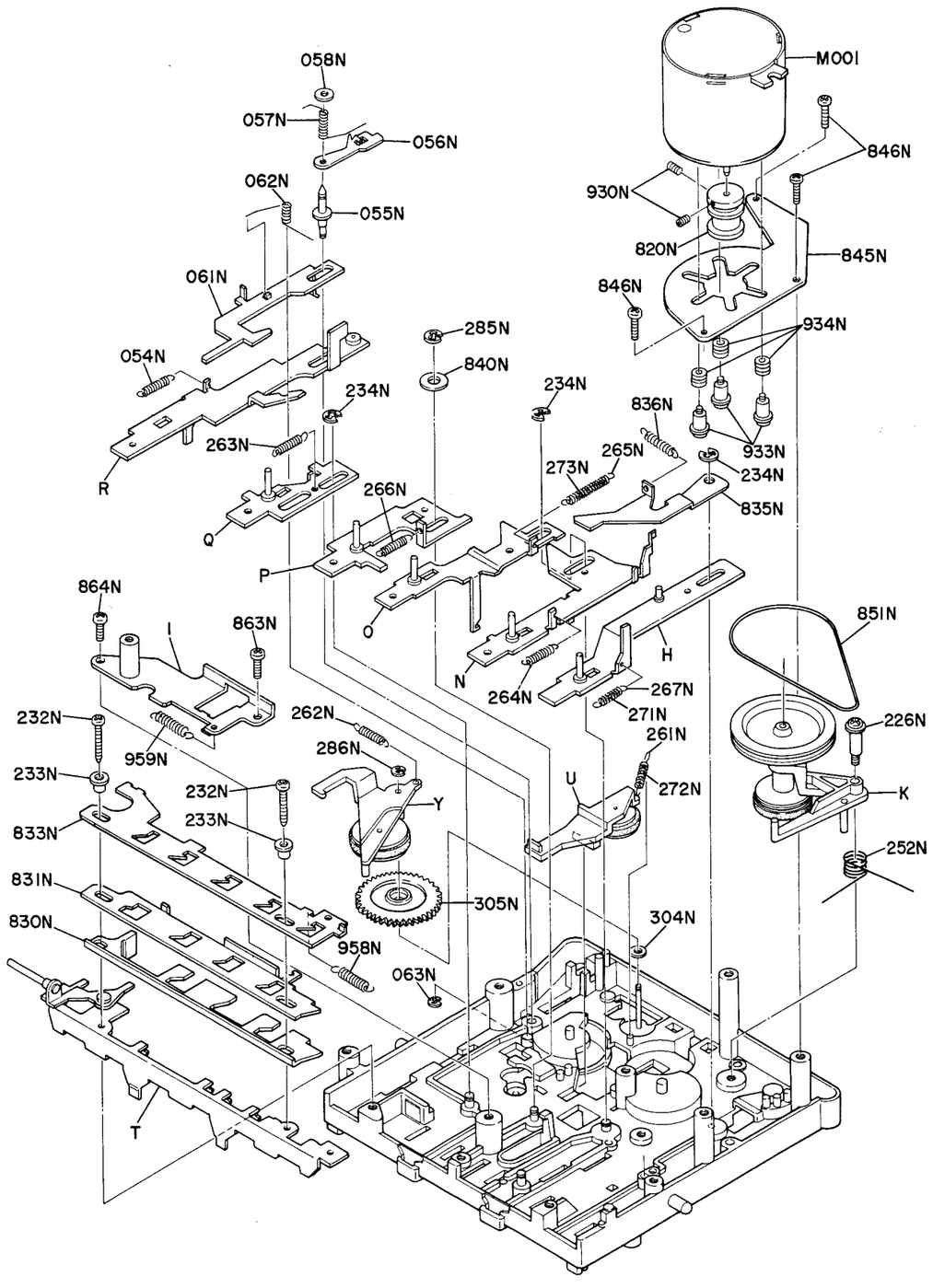



• (N): for PMS7004
• (E): for PMS7004S

| REF. DESIG. | Q'TY N | Q'TY E | PART NO. | DESCRIPTION |
|---|---|---|---|---|
| M | 1 | 1 | 4380105400 | Chassis Assembly |
| S | 1 | 1 | 4367002400 | Pinch Roller Assembly |
| V | 1 | 1 | 4367004400 | Table Assembly, Take Up |
| W | 1 | 1 | 4367004410 | Table Assembly, Supply |
| X | 1 | 1 | 4367002410 | Arm Assembly |
| Z | 1 | 1 | 4380354460 | Lever Assembly, TMS |
| 071N | 1 | 1 | 4367354092 | Lever |
| 072N | 1 | 1 | 4367354124 | Lever |
| 073N | 1 | 1 | 4380115120 | Spring |
| 074N | 1 | 1 | 51282608B0 | B.H. Tapped Screw B2.6 x 8 |
| 075N | 1 | 1 | 62261240W0 | Lug |
| 195N | 1 | 1 | 4367002055 | Arm, TMS Sensor |
| 196N | 1 | 1 | 4367115130 | Spring |
| 201N | 1 | 1 | 4367354085 | Lever |
| 202N | 1 | 1 | 4380115060 | Spring |
| 235N | 2 | 2 | 4367067010 | Cap |

| REF. DESIG. | Q'TY N | Q'TY E | PART NO. | DESCRIPTION |
|---|---|---|---|---|
| 236N | 2 | 2 | 4367263013 | Brake |
| 253N | 1 | 1 | 4367115310 | Spring |
| 268N | 1 | 1 | 4367115210 | Spring |
| 285N | 1 | 1 | 64002500R0 | RG Ring, E Type |
| 286N | 1 | 1 | 64001500R0 | RG Ring, E Type |
| 290N | 2 | 2 | 59020402G9 | Washer |
| 300N | 1 | 1 | 4367354110 | Lever |
| 310N | 1 | 1 | 4383115010 | Spring |
| 311N | 1 | 1 | 4380115033 | Spring |
| 312N | 1 | 1 | 4380112010 | Shaft |
| 502N | 1 | 1 | 4367002097 | Arm, Cue Review |
| 503N | 1 | 1 | 4367354170 | Lever |
| 504N | 1 | 1 | 4367115320 | Spring |
| 506N | 1 | 1 | 4367056050 | Buffer |
| 510N | 1 | 1 | 4367055053 | Collar |
| 842N | 1 | 1 | 64002500R0 | RG Ring, E Type |
| 960N | 1 | 1 | 4367112190 | Shaft |
| 073F | 1 | 1 | 4197115062 | Spring |
| 074F | 1 | 1 | 51302606U0 | P.H. Tapped Screw P2.6 x 6 |

## 12.12 [P12-99] Parts Assembled on the Reverse of the Chassis



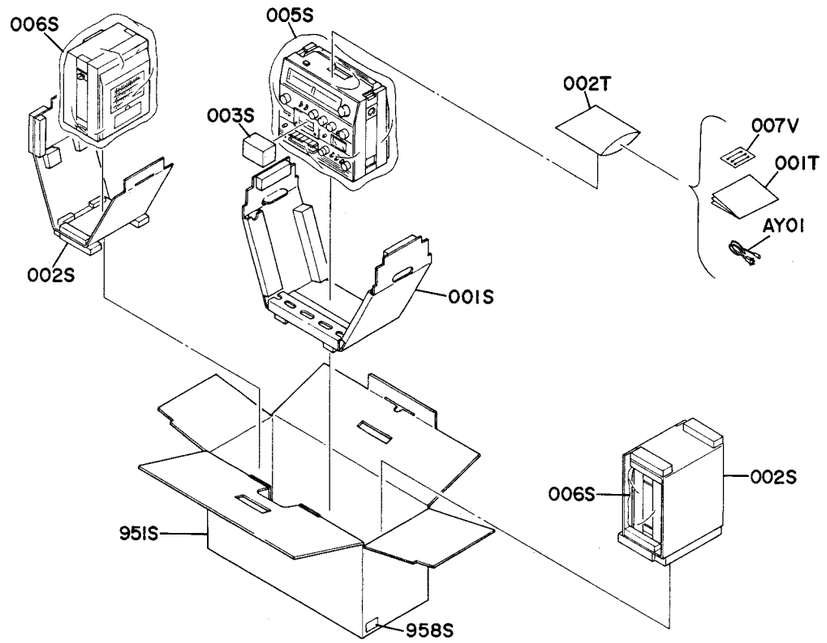



- (N): for PMS7004
- (E): for PMS7004S

| REF. DESIG. | Q'TY N | Q'TY E | PART NO. | DESCRIPTION |
|---|---|---|---|---|
| H | 1 | 1 | 4399354400 | Lever Assembly, Rec |
| I | 1 | 1 | 4380160410 | Bracket Assembly, Switch |
| K | 1 | 1 | 4380001400 | Idler Assembly |
| N | 1 | 1 | 4380354400 | Lever Assembly, Rew |
| O | 1 | 1 | 4380354490 | Lever Assembly, Play |
| P | 1 | 1 | 4380354420 | Lever Assembly, F.F. |
| Q | 1 | 1 | 4380354430 | Lever Assembly, Stop |
| R | 1 | 1 | 4380354440 | Lever Assembly, Pause |
| T | 1 | 1 | 4383051400 | Guide Assembly, Push Lever |
| U | 1 | 1 | 4367354450 | FF Idler Assembly |
| Y | 1 | 1 | 4367002410 | Arm Assembly, TMS Idler |
| 054N | 1 | 1 | 4367115210 | Spring |
| 055N | 1 | 1 | 4367112135 | Shaft |
| 056N | 1 | 1 | 4367054032 | Cam Pause Lock |
| 057N | 1 | 1 | 4367115142 | Spring |
| 058N | 1 | 1 | 59020805G9 | Washer |
| 061N | 1 | 1 | 4367354070 | Lever, Eject |
| 062N | 1 | 1 | 4380115082 | Spring |
| 063N | 1 | 1 | 64001500R0 | RG Ring, E Type |

| REF. DESIG. | Q'TY N | Q'TY E | PART NO. | DESCRIPTION |
|---|---|---|---|---|
| 226N | 1 | 1 | 4367112182 | Shaft |
| 232N | 2 | 2 | 51300312B0 | P.H. Tapped Screw P3 x 12 |
| 233N | 2 | 2 | 4382055012 | Collar, Lock Cam |
| 234N | 3 | 3 | 64000300R0 | RG Ring, E Type |
| 252N | 1 | 1 | 4380115052 | Spring |
| 261N | 1 | 1 | 4367115090 | Spring |
| 262N | 1 | 1 | 4367115120 | Spring |
| 263N | 1 | 1 | 4367115252 | Spring |
| 264N | 1 | 1 | 4367115340 | Spring |
| 265N | 1 | 1 | 4367115270 | Spring |
| 266N | 1 | 1 | 4367115282 | Spring |
| 267N | 1 | 1 | 4380115070 | Spring |
| 271N | 1 | 1 | 4367056020 | Buffer |
| 272N | 1 | 1 | 4367056030 | Buffer |
| 273N | 1 | 1 | 4367056020 | Buffer |
| 285N | 1 | 1 | 64002500R0 | RG Ring, E Type |
| 286N | 1 | 1 | 64001500R0 | RG Ring, E Type |
| 304N | 1 | 1 | 4367118060 | Spacer |
| 305N | 1 | 1 | 4367058500 | Gear (K) |
| 820N | 1 | 1 | 4380262013 | Pulley |
| 830N | 1 | 1 | 4396054010 | Cam, Stop/Eject |
| 831N | 1 | 1 | 4396054023 | Cam, Lock |
| 833N | 1 | 1 | 4396054032 | Cam, Rec Lock |
| 835N | 1 | 1 | 4399002012 | Arm, Inter Lock |
| 836N | 1 | 1 | 4399115010 | Spring |
| 840N | 1 | 1 | 54110159A0 | Flat Washer, L. |
| 845N | 1 | 1 | 4380160033 | Bracket, DC Motor |
| 846N | 3 | 3 | 51300308B0 | P.H. Tapped Screw P3 x 8 |
| 851N | 1 | 1 | 4380264052 | Belt, TMS |
| 863N | 1 | 1 | 51300308B0 | P.H. Tapped Screw P3 x 8 |
| 864N | 1 | 1 | 51300310B0 | P.H. Tapped Screw P3 x 10 |
| 930N | 2 | 2 | 51690305Q9 | Socket Screw, HP. |
| 933N | 3 | 3 | 4367112152 | Shaft |
| 934N | 3 | 3 | 4383259010 | Bushing |
| 958N | 1 | 1 | 4396115030 | Spring |
| 959N | 1 | 1 | 4396115030 | Spring |
| ⚠M001 | 1 | 1 | MM11200142 | D.C. Motor DC Governor 12V 2200rpm CCW |

## 12.13 [H01-99] Packing Materials




• (N): for PMS7004
• (E): for PMS7004S

| REF. DESIG. | Q'TY N | Q'TY E | PART NO. | DESCRIPTION |
|---|---|---|---|---|
| 001S | 1 | 1 | 4282809010 | Cushion |
| 002S | 2 | 2 | 4282809020 | Cushion |
| 003S | 1 | 1 | 4282809040 | Cushion |
| 005S | 1 | 1 | 9090909040 | Polyethylene Sheet |
| 006S | 2 | 2 | 9090909040 | Polyethylene Sheet |
| 951S | 1 | | 210T801010 | Packing Case |
| 951S | | 1 | 211T801010 | Packing Case |
| 958S | 2 | 2 | 9526019060 | Serial No. Card |
| 001T | 1 | 1 | 210T851310 | Instructions |
| 002T | 1 | 1 | 9012025010 | Polyethylene Bag |

| REF. DESIG. | Q'TY N | Q'TY E | PART NO. | DESCRIPTION |
|---|---|---|---|---|
| 007V | 1 | 1 | 4136071010 | Cleaner |
| ⚠AY01 | 1 | 1 | ZC01805010 | A.C. Power Cord |



## 12.14 Electrical Parts

• (N): for PMS7004
• (E): for PMS7004S

| REF. DESIG. | Q'TY N | Q'TY E | PART NO. | DESCRIPTION |
|---|---|---|---|---|
| | | | | **P100-TUNER CIRCUIT BOARD** |
| P100 | 1 | 1 | YG210T0010 | P.W. Board, Tuner |
| | 1 | | ZZ210T8040 | P.W. Board Assembly |
| | | 1 | ZZ211T8010 | P.W. Board Assembly |
| | | | | **P100-CAPACITORS** |
| CT01 | 1 | 1 | DK17103300 | Ceramic 0.01μF ±20% |
| CT02 | 1 | 1 | DK17103300 | Ceramic 0.01μF ±20% |
| CT03 | 1 | 1 | DF16332300 | Film 3300pF ±10% |
| CT04 | 1 | 1 | EA22701030 | Elect 220μF 10V |
| CT05 | 1 | 1 | DF16563300 | Film 0.056μF ±10% |
| CT06 | 1 | 1 | DK18473320 | Ceramic 0.047μF +80% −20% |
| CT07 | 1 | 1 | DD15150300 | Ceramic 15pF ±5% |
| CT08 | 1 | 1 | DK18223320 | Ceramic 0.022μF +80% −20% |
| CT09 | 1 | 1 | DK18473320 | Ceramic 0.047μF +80% −20% |
| CT10 | 1 | 1 | DK18103310 | Ceramic 0.01μF +80% −20% |
| CT13 | 1 | | EA47505030 | Elect 4.7μF 50V |
| CT13 | | 1 | DD10030370 | Ceramic 3pF ±0.25pF |
| CT14 | 1 | | DD11100300 | Ceramic 10pF ±0.5pF |
| C102 | 1 | 1 | DK17103300 | Ceramic 0.01μF ±20% |
| C103 | 1 | 1 | DK15240300 | Ceramic 24pF ±5% |
| C104 | 1 | 1 | CA22100020 | Variable FM 20pF AM 335pF |
| C105 | 1 | 1 | CT10800040 | Trimming 8pF |
| C106 | 1 | 1 | DK18473320 | Ceramic 0.047μF +80% −20% |
| C107 | 1 | 1 | DK18473320 | Ceramic 0.047μF +80% −20% |
| C108 | 1 | 1 | DD10050300 | Ceramic 5pF ±0.25pF |
| C109 | 1 | 1 | EA10505030 | Elect 1μF 50V |
| C110 | 1 | 1 | DD15510300 | Ceramic 51pF ±5% |
| C111 | 1 | 1 | DD10050300 | Ceramic 5pF ±0.25pF |
| C112 | 1 | 1 | DD10050300 | Ceramic 5pF ±0.25pF |
| C113 | 1 | 1 | CT10800040 | Trimming 8pF |
| C114 | 1 | 1 | DD11100360 | Ceramic 10pF ±5% |
| C115 | 1 | 1 | DD15150300 | Ceramic 15pF ±5% |
| C116 | 1 | 1 | DD15510300 | Ceramic 51pF ±5% |
| C117 | 1 | 1 | DD15360300 | Ceramic 36pF ±5% |
| C118 | 1 | 1 | DK18223320 | Ceramic 0.022μF +80% −20% |
| C119 | 1 | 1 | DK17103300 | Ceramic 0.01μF ±20% |
| C120 | 1 | 1 | DK18223320 | Ceramic 0.022μF +80% −20% |
| C121 | 1 | 1 | DK18473320 | Ceramic 0.047μF +80% −20% |
| C122 | 1 | 1 | DK18473320 | Ceramic 0.047μF +80% −20% |
| C123 | 1 | 1 | DK18473320 | Ceramic 0.047μF +80% −20% |
| C124 | 1 | 1 | DK18223320 | Ceramic 0.022μF +80% −20% |
| C125 | 1 | 1 | DK18223320 | Ceramic 0.022μF +80% −20% |
| C126 | 1 | 1 | DD15200300 | Ceramic 20pF ±5% |
| C127 | 1 | 1 | DK18223320 | Ceramic 0.022μF +80% −20% |
| C128 | 1 | 1 | DK18223320 | Ceramic 0.022μF +80% −20% |
| C129 | 1 | 1 | DK18473320 | Ceramic 0.047μF +80% −20% |
| C130 | 1 | 1 | DK18473320 | Ceramic 0.047μF +80% −20% |
| C131 | 1 | 1 | DK18223320 | Ceramic 0.022μF +80% −20% |
| C132 | 1 | 1 | DK18223320 | Ceramic 0.022μF +80% −20% |
| C133 | 1 | 1 | DK16102300 | Ceramic 1000pF ±10% |
| C134 | 1 | 1 | DK18223320 | Ceramic 0.022μF +80% −20% |
| C135 | 1 | 1 | DK16331300 | Ceramic 330pF ±10% |
| C136 | 1 | 1 | EA47505030 | Elect 4.7μF 50V |
| C137 | 1 | 1 | DD15221370 | Ceramic 220pF ±5% |
| C138 | 1 | 1 | DD15221370 | Ceramic 220pF ±5% |
| C139 | 1 | 1 | DK18473320 | Ceramic 0.047μF +80% −20% |
| C140 | 1 | 1 | DF55391090 | Film 390pF ±5% |
| C141 | 1 | 1 | DF16473300 | Film 0.047μF ±10% |
| CT15 | 1 | | EA47505030 | Elect 4.7μF 50V |
| CT16 | 1 | 1 | DD15510300 | Ceramic 51pF ±5% |

| REF. DESIG. | Q'TY N | Q'TY E | PART NO. | DESCRIPTION |
|---|---|---|---|---|
| C142 | 1 | 1 | DK18473320 | Ceramic 0.047μF +80% −20% |
| C143 | 1 | 1 | EA47405030 | Elect 0.47μF 50V |
| C144 | 1 | 1 | EA10505030 | Elect 1μF 50V |
| C145 | 1 | 1 | EA33505030 | Elect 3.3μF 50V |
| C146 | 1 | 1 | EA47505030 | Elect 4.7μF 50V |
| C147 | 1 | 1 | DF16123300 | Film 0.012μF ±10% |
| C148 | 1 | 1 | DF16123300 | Film 0.012μF ±10% |
| C149 | 1 | 1 | EA10505030 | Elect 1μF 50V |
| C150 | 1 | 1 | EA10701030 | Elect 100μF 10V |
| C151 | 1 | 1 | EA47505030 | Elect 4.7μF 50V |
| C152 | 1 | 1 | EA47505030 | Elect 4.7μF 50V |
| C153 | 1 | 1 | EA47505030 | Elect 4.7μF 50V |
| C154 | 1 | 1 | EA47505030 | Elect 4.7μF 50V |
| C155 | 1 | 1 | DF55101090 | Film 100pF ±5% |
| C156 | 1 | 1 | DK18473320 | Ceramic 0.047μF +80% −20% |
| C157 | 1 | 1 | EA22701030 | Elect 220μF 10V |
| C158 | 1 | 1 | EA10505030 | Elect 1μF 50V |
| C159 | 1 | 1 | DD15150300 | Ceramic 15pF ±5% |
| C160 | 1 | 1 | DK18473320 | Ceramic 0.047μF +80% −20% |
| C161 | 1 | 1 | CT10800040 | Trimming 8pF |
| C162 | 1 | 1 | CT10800040 | Trimming 8pF |
| C163 | 1 | 1 | DD10050300 | Ceramic 5pF ±0.25pF |
| C164 | 1 | 1 | CT10800040 | Trimming 8pF |
| C165 | 1 | | DD15180370 | Ceramic 18pF ±5% |
| C165 | | 1 | DD11100300 | Ceramic 10pF ±0.5pF |
| C166 | 1 | 1 | DK17472300 | Ceramic 4700pF ±20% |
| C167 | 1 | 1 | DK17103300 | Ceramic 0.01μF ±20% |
| C168 | 1 | | DF16393300 | Film 0.039μF ±10% |
| C168 | | 1 | DK17103300 | Ceramic 0.01μF ±20% |
| C170 | 1 | 1 | DK16152300 | Ceramic 1500pF ±10% |
| C171 | 1 | 1 | DK17103300 | Ceramic 0.01μF ±20% |
| C172 | 1 | | DF16393300 | Film 0.039μF ±10% |
| C172 | | 1 | DK17103300 | Ceramic 0.01μF ±20% |
| C173 | 1 | 1 | DK18473320 | Ceramic 0.047μF +80% −20% |
| C174 | 1 | 1 | DF55332090 | Film 3300pF ±5% |
| C175 | 1 | 1 | CT10800040 | Trimming 8pF |
| C177 | 1 | | DF55391090 | Film 390pF ±5% |
| C177 | | 1 | DF55152090 | Film 1500pF ±5% |
| C178 | 1 | 1 | CT10800040 | Trimming 8pF |
| C179 | 1 | 1 | DD15150400 | Ceramic 15pF ±5% |
| C180 | 1 | | DF55181090 | Film 180pF ±5% |
| C180 | | 1 | DF55391090 | Film 390pF ±5% |
| C181 | 1 | 1 | CT10800040 | Trimming 8pF |
| C182 | 1 | | DD15820360 | Ceramic 82pF ±5% |
| C183 | 1 | 1 | DK16102300 | Ceramic 1000pF ±10% |
| C184 | 1 | | DK17103300 | Ceramic 0.01μF ±20% |
| C184 | | 1 | DK17472300 | Ceramic 4700pF ±20% |
| C185 | 1 | | DF16393300 | Film 0.039μF ±10% |
| C185 | | 1 | DK17103300 | Ceramic 0.01μF ±20% |
| C186 | 1 | 1 | DK18473320 | Ceramic 0.047μF +80% −20% |
| C187 | 1 | 1 | DK18473320 | Ceramic 0.047μF +80% −20% |
| C188 | 1 | 1 | DK18473320 | Ceramic 0.047μF +80% −20% |
| C189 | 1 | 1 | DK18473320 | Ceramic 0.047μF +80% −20% |
| C190 | 1 | 1 | DK17103300 | Ceramic 0.01μF ±20% |
| C191 | 1 | 1 | DK18473320 | Ceramic 0.047μF +80% −20% |
| C192 | 1 | 1 | EA47505030 | Elect 4.7μF 50V |
| C193 | 1 | 1 | DK17103300 | Ceramic 0.01μF ±20% |
| C194 | 1 | 1 | DK18473320 | Ceramic 0.047μF +80% −20% |
| C195 | 1 | 1 | DK17103300 | Ceramic 0.01μF ±20% |
| C196 | 1 | 1 | DK18473320 | Ceramic 0.047μF +80% −20% |
| C197 | 1 | 1 | DK18473320 | Ceramic 0.047μF +80% −20% |
| C198 | 1 | 1 | DK18103320 | Ceramic 0.01μF +80% −20% |
| C199 | 1 | 1 | DK18103320 | Ceramic 0.01μF +80% −20% |

• (N): for PMS7004
• (E): for PMS7004S

| REF. DESIG. | Q'TY N | Q'TY E | PART NO. | DESCRIPTION |
|---|---|---|---|---|
| | | | | **P100-RESISTORS** |
| | | | | **(All Resistors are ±5% and ¼W)** |
| RT01 | 1 | 1 | GD05101140 | 100Ω |
| RT02 | 1 | 1 | GD05103140 | 10KΩ |
| RT03 | 1 | 1 | GD05182140 | 1.8KΩ |
| RT04 | 1 | 1 | GD05472140 | 4.7KΩ |
| RT05 | 1 | 1 | GD05103140 | 10KΩ |
| RT06 | 1 | 1 | GG05101120 | 100Ω ½W |
| RT07 | 1 | 1 | GD05101140 | 100Ω |
| RT08 | 1 | 1 | GD05333140 | 33KΩ |
| RT09 | 1 | 1 | GD05562140 | 5.6KΩ |
| RT10 | 1 | 1 | GD05222140 | 2.2KΩ |
| RT12 | 1 | 1 | GD05562140 | 5.6KΩ |
| RT13 | 1 | 1 | GD05103140 | 10KΩ |
| RT14 | 1 | 1 | GD05103140 | 10KΩ |
| RT15 | 1 | 1 | GD05122140 | 1.2KΩ |
| RT16 | 1 | 1 | GD05683140 | 68KΩ |
| RT17 | 1 | | GD05274140 | 270KΩ |
| RT18 | | 1 | GD05274140 | 270KΩ |
| RT19 | 1 | 1 | GD05103140 | 10KΩ |
| RT20 | 1 | 1 | GD05333140 | 33KΩ |
| R101 | 1 | 1 | GD05221140 | 220Ω |
| R103 | 1 | 1 | GD05561140 | 560Ω |
| R104 | 1 | 1 | GD05333140 | 33KΩ |
| R105 | 1 | 1 | GD05222140 | 2.2KΩ |
| R106 | 1 | 1 | GD05560140 | 56Ω |
| R107 | 1 | 1 | GD05221140 | 220Ω |
| R108 | 1 | 1 | GD05105140 | 1MΩ |
| R109 | 1 | 1 | GD05101140 | 100Ω |
| R110 | 1 | 1 | GD05152140 | 1.5KΩ |
| R111 | 1 | 1 | GD05103140 | 10KΩ |
| R112 | 1 | 1 | GD05333140 | 33KΩ |
| R113 | 1 | 1 | GD05274140 | 270KΩ |
| R114 | 1 | 1 | GD05471140 | 470Ω |
| R115 | 1 | 1 | GD05221140 | 220Ω |
| R116 | 1 | 1 | GD05103140 | 10KΩ |
| R117 | 1 | 1 | GD05102140 | 1KΩ |
| R118 | 1 | 1 | GD05562140 | 5.6KΩ |
| R119 | 1 | 1 | GD05151140 | 150Ω |
| R120 | 1 | 1 | GD05224140 | 220KΩ |
| R121 | 1 | 1 | GD05222140 | 2.2KΩ |
| R122 | 1 | 1 | GD05391140 | 390Ω |
| R123 | 1 | 1 | GD05103140 | 10KΩ |
| R124 | 1 | 1 | GD05561140 | 560Ω |
| R125 | 1 | 1 | GD05471140 | 470Ω |
| R126 | 1 | 1 | GD05470140 | 47Ω |
| R127 | 1 | 1 | GD05471140 | 470Ω |
| R128 | 1 | 1 | GD05471140 | 470Ω |
| R129 | 1 | 1 | GD05101140 | 100Ω |
| R130 | 1 | 1 | GD05150140 | 15Ω |
| R131 | 1 | 1 | GD05222140 | 2.2KΩ |
| R132 | 1 | 1 | GD05471140 | 470Ω |
| R133 | 1 | 1 | GD05105140 | 1MΩ |
| R134 | 1 | 1 | GD05222140 | 2.2KΩ |
| R135 | 1 | 1 | GD05471140 | 470Ω |
| R136 | 1 | 1 | GD05270140 | 27Ω |
| RT21 | 1 | 1 | GD05330140 | 33Ω |
| RT22 | 1 | 1 | GD05330140 | 33Ω |
| RT23 | 1 | 1 | GD05220140 | 22Ω |
| RT24 | 1 | 1 | GD05332140 | 3.3KΩ |

| REF. DESIG. | Q'TY N | Q'TY E | PART NO. | DESCRIPTION |
|---|---|---|---|---|
| R137 | 1 | 1 | GD05101140 | 100Ω |
| R138 | 1 | 1 | GD05102140 | 1KΩ |
| R139 | 1 | 1 | GD05102140 | 1KΩ |
| R140 | 1 | 1 | GD05683140 | 68KΩ |
| R141 | 1 | 1 | GD05682140 | 6.8KΩ |
| R142 | 1 | 1 | GD05103140 | 10KΩ |
| R143 | 1 | 1 | RA05040090 | 500KΩ, Trimming |
| R145 | 1 | 1 | GD05223140 | 22KΩ |
| R146 | 1 | 1 | RA01030260 | 10KΩ, Trimming |
| R147 | 1 | 1 | GD05101140 | 100Ω |
| R148 | 1 | 1 | GD05102140 | 1KΩ |
| R149 | 1 | 1 | GD05104140 | 100KΩ |
| R150 | 1 | 1 | GD05224140 | 220KΩ |
| R151 | 1 | 1 | GD05561140 | 560Ω |
| R152 | 1 | 1 | RA02020180 | 2KΩ, Trimming |
| R153 | 1 | 1 | GD05392140 | 3.9KΩ |
| R154 | 1 | 1 | GD05392140 | 3.9KΩ |
| R155 | 1 | 1 | GD05684140 | 680KΩ |
| R156 | 1 | 1 | GD05684140 | 680KΩ |
| R157 | 1 | 1 | GD05561140 | 560Ω |
| R158 | 1 | 1 | GD05561140 | 560Ω |
| R159 | 1 | 1 | GD05332140 | 3.3KΩ |
| R160 | 1 | 1 | GD05332140 | 3.3KΩ |
| R161 | 1 | 1 | GD05182140 | 1.8KΩ |
| R162 | 1 | 1 | GD05182140 | 1.8KΩ |
| R164 | 1 | 1 | GD05103140 | 10KΩ |
| R165 | 1 | 1 | GD05272140 | 2.7KΩ |
| R166 | 1 | 1 | GD05272140 | 2.7KΩ |
| R168 | 1 | 1 | GG05100120 | 10Ω ¼W |
| R169 | 1 | 1 | GG05101120 | 100Ω |
| R174 | 1 | 1 | GD05684140 | 680KΩ |
| R175 | 1 | 1 | GD05222140 | 2.2KΩ |
| R176 | 1 | 1 | GD05151140 | 150Ω |
| R177 | 1 | 1 | GD05101140 | 100Ω |
| R178 | 1 | 1 | GD05101140 | 100Ω |
| R179 | 1 | 1 | GD05560140 | 56Ω |
| R180 | 1 | 1 | GD05102140 | 1KΩ |
| R182 | 1 | 1 | GD05274140 | 270KΩ |
| R183 | 1 | 1 | GD05101140 | 100Ω |
| R184 | 1 | 1 | GD05224140 | 220KΩ |
| R185 | 1 | 1 | GD05273140 | 27KΩ |
| R186 | 1 | 1 | GD05273140 | 27KΩ |
| R187 | 1 | 1 | GD05221140 | 220Ω |
| R188 | 1 | 1 | GD05561140 | 560Ω |
| R189 | 1 | 1 | GD05562140 | 5.6KΩ |
| R190 | 1 | 1 | GD05273140 | 27KΩ |
| R191 | 1 | 1 | GD05101140 | 100Ω |
| R192 | 1 | 1 | GD05471140 | 470Ω |
| R193 | 1 | 1 | GD05561140 | 560Ω |
| R194 | 1 | 1 | GD05331140 | 330Ω |
| R195 | 1 | 1 | GD05562140 | 5.6KΩ |
| R196 | 1 | 1 | GD05153140 | 15KΩ |
| R198 | 1 | 1 | GD05471140 | 470Ω |
| R199 | 1 | 1 | GD05331140 | 330Ω |



• (N): for PMS7004
• (E): for PMS7004S

| REF. DESIG. | Q'TY N | Q'TY E | PART NO. | DESCRIPTION |
|---|---|---|---|---|
| | | | | **P100-SEMICONDUCTORS** |
| Q101 | 1 | 1 | HT310471C0 | Transistor 2SC1047(C) |
| Q102 | 1 | 1 | HT310471C0 | Transistor 2SC1047(C) |
| Q103 | 1 | 1 | HT313591C0 | Transistor 2SC1359(C) |
| Q104 | 1 | 1 | HT308291C0 | Transistor 2SC829(C) |
| Q105 | 1 | 1 | HC10019030 | IC LA1222 |
| Q106 | 1 | 1 | HC10019030 | IC LA1222 |
| Q107 | 1 | 1 | HT320011K0 | Transistor 2SC2001(K) |
| Q108 | 1 | 1 | HC10015210 | IC BA1320 |
| Q109 | 1 | 1 | HT308281B0 | Transistor 2SC828(B) |
| Q110 | 1 | 1 | HT308281B0 | Transistor 2SC828(B) |
| Q111 | 1 | 1 | HT313591C0 | Transistor 2SC1359(C) |
| Q112 | 1 | 1 | HT313591C0 | Transistor 2SC1359(C) |
| Q113 | 1 | 1 | HT308291C0 | Transistor 2SC829(C) |
| Q114 | 1 | 1 | HT308291C0 | Transistor 2SC829(C) |
| Q115 | 1 | 1 | HT308291C0 | Transistor 2SC829(C) |
| Q116 | 1 | 1 | HT320011K0 | Transistor 2SC2001(K) |
| Q121 | 1 | 1 | HD20001210 | Diode 1S2473 |
| Q122 | 1 | 1 | HD20001210 | Diode 1S2473 |
| Q123 | 1 | 1 | HD10002020 | Diode OA90 |
| Q124 | 1 | 1 | HD40009090 | Varicap 1S2688B |
| Q125 | 1 | 1 | HD10002020 | Diode OA90 |
| Q126 | 1 | 1 | HD10002020 | Diode OA90 |
| Q127 | 1 | 1 | HD10002020 | Diode OA90 |
| Q128 | 1 | 1 | HD10003020 | Diode 2OA90 |
| Q129 | 1 | 1 | HD10003020 | Diode 2OA90 |
| Q131 | 1 | 1 | HD20001210 | Diode 1S2473 |
| Q132 | 1 | 1 | HD10002020 | Diode OA90 |
| Q133 | 1 | 1 | HD30033090 | Zener WZ-052 |
| Q135 | 1 | 1 | HD10002020 | Diode OA90 |
| Q136 | 1 | 1 | HD10002020 | Diode OA90 |
| Q138 | 1 | 1 | HD10002020 | Diode OA90 |
| Q139 | 1 | 1 | HD10002020 | Diode OA90 |
| Q140 | 1 | 1 | HD10002020 | Diode OA90 |
| Q141 | 1 | 1 | HD10002020 | Diode OA90 |
| Q142 | 1 | 1 | HD10002020 | Diode OA90 |
| | | | | **P100-MISCELLANEOUS** |
| F101 | 1 | 1 | FF39800010 | L.C. Filter 88-109MHz |
| F102 | 1 | 1 | FF11070120 | Ceramic Filter SFE 10.7MS3 |
| F103 | 1 | 1 | FF11070120 | Ceramic Filter SFE 10.7MS3 |
| F104 | 1 | 1 | FF11070110 | Ceramic Filter SFE 10.7MJ |
| J101 | 1 | 1 | YP06001040 | Plug (3P) |
| J102 | 1 | 1 | YJ06001040 | Jack (3P) |
| L101 | 1 | 1 | LA70258020 | Antenna Coil, FM RF |
| L102 | 1 | 1 | LC16820020 | Choke Coil, 6.8μH |
| L103 | 1 | 1 | LA70258020 | Antenna Coil, FM OSC |
| L104 | 1 | 1 | LI70038180 | I.F.T. Coil, FM IF 1st |
| L105 | 1 | 1 | LC11030030 | Choke Coil, 10μH |
| L106 | 1 | 1 | LC11030030 | Choke Coil, 10μH |
| L107 | 1 | 1 | LI70138010 | I.F.T. Coil, FM IF 2nd |
| L108 | 1 | 1 | LI70018020 | I.F.T. Coil, FM IF |
| L109 | 1 | 1 | LC22260500 | Choke Coil, 22mH |
| L110 | 1 | 1 | LA10350020 | Antenna Coil, SW |

| REF. DESIG. | Q'TY N | Q'TY E | PART NO. | DESCRIPTION |
|---|---|---|---|---|
| L111 | 1 | | LF11400972 | Antenna Coil, LW-MW |
| L111 | | 1 | LF11400980 | Antenna Coil, MW-SW1 |
| L112 | 1 | 1 | LO70033150 | OSC Coil, SW |
| L113 | 1 | | LO70033140 | OSC Coil, MW |
| L113 | | 1 | LO71010050 | OSC Coil, SW1 |
| L114 | 1 | | LO70033130 | OSC Coil, LW |
| L114 | | 1 | LO70033140 | OSC Coil, MW |
| L115 | 1 | 1 | LI70033080 | I.F.T. Coil, AM IF 2nd |
| L116 | 1 | 1 | LI70243032 | I.F.T. Coil, AM IF 1st |
| L117 | 1 | 1 | LS10413010 | M.P.X. Coil |
| L118 | 1 | 1 | LS10413010 | M.P.X. Coil |
| S101 | 1 | 1 | SC00030020 | Lever Switch |
| S102 | 1 | 1 | SB12500010 | Switch Band, FLX |
| S103 | 1 | 1 | SS08030190 | Slide Switch, LW-MW-SW |
| W101 | 1 | 1 | YU05120240 | Jumper Lead (10P) 140mm |
| W102 | 1 | 1 | YU08080260 | Jumper Lead (8P) 80mm |
| | | | | **P200-AUDIO CIRCUIT BOARD** |
| P200 | 1 | 1 | YG210T0020 | P.W. Board, Audio |
| | 1 | | ZZ210T8050 | P.W. Board Assembly |
| | | 1 | ZZ211T8020 | P.W. Board Assembly |
| | | | | **P200-CAPACITORS** |
| C201 | 1 | 1 | EE10405050 | Elect 0.1μF 50V |
| C202 | 1 | 1 | EE10405050 | Elect 0.1μF 50V |
| C203 | 1 | 1 | EA10701030 | Elect 100μF 10V |
| C204 | 1 | 1 | EA10701030 | Elect 100μF 10V |
| C205 | 1 | 1 | EE47505050 | Elect 4.7μF 50V |
| C206 | 1 | 1 | EE47505050 | Elect 4.7μF 50V |
| C207 | 1 | 1 | DK16471300 | Ceramic 470pF ±10% |
| C208 | 1 | 1 | DK16471300 | Ceramic 470pF ±10% |
| C209 | 1 | 1 | EA10701030 | Elect 100μF 10V |
| C210 | 1 | 1 | EA10701030 | Elect 100μF 10V |
| C211 | 1 | 1 | DK16102300 | Ceramic 1000pF ±10% |
| C212 | 1 | 1 | DK16102300 | Ceramic 1000pF ±10% |
| C213 | 1 | 1 | DD15470370 | Ceramic 47pF ±5% |
| C214 | 1 | 1 | DD15470370 | Ceramic 47pF ±5% |
| C215 | 1 | 1 | EA10701030 | Elect 100μF 10V |
| C216 | 1 | 1 | EA10701030 | Elect 100μF 10V |
| C219 | 1 | 1 | DF15183300 | Film 0.018μF ±5% |
| C220 | 1 | 1 | DF15183300 | Film 0.018μF ±5% |
| C221 | 1 | 1 | DD15300300 | Ceramic 30pF ±5% |
| C222 | 1 | 1 | DD15300300 | Ceramic 30pF ±5% |
| C223 | 1 | 1 | EA33601030 | Elect 33μF 10V |
| C224 | 1 | 1 | EA33601030 | Elect 33μF 10V |
| C225 | 1 | 1 | EA10701030 | Elect 100μF 10V |
| C226 | 1 | 1 | EA10701030 | Elect 100μF 10V |
| C227 | 1 | 1 | EA47505030 | Elect 4.7μF 50V |
| C228 | 1 | 1 | EA47505030 | Elect 4.7μF 50V |
| C229 | 1 | 1 | DF15153300 | Film 0.015μF ±5% |
| C230 | 1 | 1 | DF15153300 | Film 0.015μF ±5% |
| C231 | 1 | 1 | EA10602530 | Elect 10μF 25V |
| C232 | 1 | 1 | EA10602530 | Elect 10μF 25V |

• (N): for PMS7004
• (E): for PMS7004S

| REF. DESIG. | Q'TY N | Q'TY E | PART NO. | DESCRIPTION |
|---|---|---|---|---|
| C233 | 1 | 1 | EA10505030 | Elect 1μF 50V |
| C234 | 1 | 1 | EA10505030 | Elect 1μF 50V |
| C237 | 1 | 1 | EA10505030 | Elect 1μF 50V |
| C238 | 1 | 1 | EA10505030 | Elect 1μF 50V |
| C239 | 1 | 1 | EA10602530 | Elect 10μF 25V |
| C240 | 1 | 1 | EA10602530 | Elect 10μF 25V |
| C241 | 1 | 1 | EA10702530 | Elect 100μF 25V |
| C242 | 1 | 1 | EA10702530 | Elect 100μF 25V |
| C243 | 1 | 1 | DF15472300 | Film 4700pF ±5% |
| C244 | 1 | 1 | DF15472300 | Film 4700pF ±5% |
| C245 | 1 | 1 | DF15273300 | Film 0.027μF ±5% |
| C246 | 1 | 1 | DF15273300 | Film 0.027μF ±5% |
| C247 | 1 | 1 | EA10602530 | Elect 10μF 25V |
| C248 | 1 | 1 | EA10602530 | Elect 10μF 25V |
| C249 | 1 | 1 | DF15562300 | Film 5600pF ±5% |
| C250 | 1 | 1 | DF15562300 | Film 5600pF ±5% |
| C251 | 1 | 1 | DF15182300 | Film 1800pF ±5% |
| C252 | 1 | 1 | DF15182300 | Film 1800pF ±5% |
| C253 | 1 | 1 | EA10505030 | Elect 1μF 50V |
| C254 | 1 | 1 | EA10505030 | Elect 1μF 50V |
| C255 | 1 | 1 | DF15102300 | Film 1000pF ±5% |
| C256 | 1 | 1 | DF15102300 | Film 1000pF ±5% |
| C257 | 1 | 1 | EA22701030 | Elect 220μF 10V |
| C258 | 1 | 1 | EA22701030 | Elect 220μF 10V |
| C259 | 1 | 1 | EA10505030 | Elect 1μF 50V |
| C260 | 1 | 1 | EA10505030 | Elect 1μF 50V |
| C261 | 1 | 1 | DF15392300 | Film 3900pF ±5% |
| C262 | 1 | 1 | DF15392300 | Film 3900pF ±5% |
| C263 | 1 | | DF55511090 | Film 510pF ±5% |
| C263 | | 1 | DF55101090 | Film 100pF ±5% |
| C264 | 1 | | DF55511090 | Film 510pF ±5% |
| C264 | | 1 | DF55101090 | Film 100pF ±5% |
| C265 | 1 | 1 | EA10602530 | Elect 10μF 25V |
| C266 | 1 | 1 | EA10602530 | Elect 10μF 25V |
| C267 | 1 | 1 | EE33405050 | Elect 0.33μF 50V |
| C268 | 1 | 1 | EE33405050 | Elect 0.33μF 50V |
| C269 | 1 | 1 | EE10405050 | Elect 0.1μF 50V |
| C270 | 1 | 1 | EE10405050 | Elect 0.1μF 50V |
| C271 | 1 | 1 | EA10602530 | Elect 10μF 25V |
| C272 | 1 | 1 | EA10602530 | Elect 10μF 25V |
| C273 | 1 | 1 | DF16473300 | Film 0.047μF ±10% |
| C274 | 1 | 1 | DF16473300 | Film 0.047μF ±10% |
| C275 | 1 | 1 | EA22505030 | Elect 2.2μF 50V |
| C276 | 1 | 1 | EA22505030 | Elect 2.2μF 50V |
| C277 | 1 | 1 | EA22505030 | Elect 2.2μF 50V |
| C278 | 1 | 1 | EA22505030 | Elect 2.2μF 50V |
| C279 | 1 | 1 | DK16102300 | Ceramic 1000pF ±10% |
| C280 | 1 | 1 | DK16102300 | Ceramic 1000pF ±10% |
| C281 | 1 | 1 | EA22505030 | Elect 2.2μF 50V |
| C282 | 1 | 1 | EA22505030 | Elect 2.2μF 50V |
| C283 | 1 | 1 | EA22505030 | Elect 2.2μF 50V |
| C284 | 1 | 1 | EA22505030 | Elect 2.2μF 50V |
| C285 | 1 | 1 | EA47505030 | Elect 4.7μF 50V |
| C286 | 1 | 1 | EA47505030 | Elect 4.7μF 50V |
| C287 | 1 | 1 | DF15222300 | Film 2200pF ±5% |
| C288 | 1 | 1 | DF15222300 | Film 2200pF ±5% |
| C289 | 1 | | DF55511090 | Film 510pF ±5% |
| C289 | | 1 | DF55101510 | Film 100pF ±5% |
| C290 | 1 | | DF55511090 | Film 510pF ±5% |
| C290 | | 1 | DF55101510 | Film 100pF ±5% |

| REF. DESIG. | Q'TY N | Q'TY E | PART NO. | DESCRIPTION |
|---|---|---|---|---|
| C291 | 1 | 1 | DF15152300 | Film 1500pF ±5% |
| C292 | 1 | 1 | DF15152300 | Film 1500pF 50V |
| C293 | 1 | 1 | DF15183300 | Film 0.018μF ±5% |
| C294 | 1 | 1 | DF15183300 | Film 0.018μF ±5% |
| C295 | 1 | 1 | EA47505030 | Elect 4.7μF 50V |
| C296 | 1 | 1 | EA47505030 | Elect 4.7μF 50V |
| C297 | 1 | 1 | EE33405050 | Elect 0.33μF 50V |
| C298 | 1 | 1 | EE33405050 | Elect 0.33μF 50V |
| C299 | 1 | 1 | EA47505030 | Elect 4.7μF 50V |
| C300 | 1 | 1 | EA47505030 | Elect 4.7μF 50V |
| C301 | 1 | 1 | EA47505030 | Elect 4.7μF 50V |
| C302 | 1 | 1 | EA47505030 | Elect 4.7μF 50V |
| C303 | 1 | 1 | EA33601030 | Elect 33μF 10V |
| C304 | 1 | 1 | EA47702530 | Elect 470μF 25V |
| C306 | 1 | 1 | EA10701030 | Elect 100μF 10V |
| C307 | 1 | 1 | EA10601630 | Elect 10μF 16V |
| C308 | 1 | 1 | EA22700630 | Elect 220μF 6.3V |
| C309 | | 1 | DF55391510 | Film 390pF ±5% |
| C310 | | 1 | DF55821510 | Film 820pF ±5% |
| C311 | 1 | 1 | EA10801030 | Elect 1000μF 10V |
| C313 | 1 | 1 | DF16473300 | Film 0.047μF ±10% |
| C314 | 1 | 1 | DF16473300 | Film 0.047μF ±10% |
| C315 | 1 | 1 | EA10801030 | Elect 1000μF 10V |
| C317 | 1 | 1 | DD15300370 | Ceramic 30pF ±5% |
| C318 | 1 | 1 | DD15300370 | Ceramic 30pF ±5% |
| C319 | 1 | 1 | DF55511090 | Film 510pF ±5% |
| C320 | 1 | 1 | DF55511090 | Film 510pF ±5% |
| C601 | 1 | 1 | DF16682300 | Film 6800pF ±10% |
| C602 | 1 | 1 | DF16682300 | Film 6800pF ±10% |
| C603 | 1 | 1 | DF16683300 | Film 0.068μF ±10% |
| C604 | 1 | 1 | DF16683300 | Film 0.068μF ±10% |
| C605 | 1 | 1 | DF16333300 | Film 0.033μF ±10% |
| C606 | 1 | 1 | DF16333300 | Film 0.033μF ±10% |
| C607 | 1 | 1 | EA33405030 | Elect 0.33μF 50V |
| C608 | 1 | 1 | EA33405030 | Elect 0.33μF 50V |
| C609 | 1 | 1 | DF16472300 | Film 4700pF ±10% |
| C610 | 1 | 1 | DF16472300 | Film 4700pF ±10% |
| C611 | 1 | 1 | EA10405030 | Elect 0.1μF 50V |
| C612 | 1 | 1 | EA10405030 | Elect 0.1μF 50V |

**P200-RESISTORS**
**(All Resistors are ±5% and ¼W)**

| | | | | |
|---|---|---|---|---|
| R201 | 1 | 1 | GD05102140 | 1KΩ |
| R202 | 1 | 1 | GD05102140 | 1KΩ |
| R203 | 1 | 1 | GD05100140 | 10Ω |
| R204 | 1 | 1 | GD05100140 | 10Ω |
| R205 | 1 | 1 | GD05821140 | 820Ω |
| R206 | 1 | 1 | GD05821140 | 820Ω |
| R207 | 1 | 1 | GD05222140 | 2.2KΩ |
| R208 | 1 | 1 | GD05222140 | 2.2KΩ |
| R209 | 1 | 1 | GD05473140 | 47KΩ |
| R210 | 1 | 1 | GD05473140 | 47KΩ |
| R211 | 1 | 1 | GD05154140 | 150KΩ |
| R212 | 1 | 1 | GD05154140 | 150KΩ |
| R213 | 1 | 1 | GD05103140 | 10KΩ |
| R214 | 1 | 1 | GD05103140 | 10KΩ |
| R215 | 1 | 1 | GD05221140 | 220Ω |
| R216 | 1 | 1 | GD05221140 | 220Ω |
| R217 | 1 | 1 | GD05223140 | 22KΩ |
| R218 | 1 | 1 | GD05223140 | 22KΩ |
| R219 | 1 | 1 | RA01030260 | 10KΩ(B), Trimming |
| R220 | 1 | 1 | RA01030260 | 10KΩ(B), Trimming |

• (N): for PMS7004
• (E): for PMS7004S

| REF. DESIG. | Q'TY N | Q'TY E | PART NO. | DESCRIPTION |
|---|---|---|---|---|
| R221 | 1 | 1 | GD05332140 | 3.3KΩ |
| R222 | 1 | 1 | GD05332140 | 3.3KΩ |
| R223 | 1 | 1 | GD05334140 | 330KΩ |
| R224 | 1 | 1 | GD05334140 | 330KΩ |
| R225 | 1 | 1 | GD05153140 | 15KΩ |
| R226 | 1 | 1 | GD05153140 | 15KΩ |
| R227 | 1 | 1 | RA02030060 | 20KΩ(B), Trimming |
| R228 | 1 | 1 | RA02030060 | 20KΩ(B), Trimming |
| R229 | 1 | 1 | GD05101140 | 100Ω |
| R230 | 1 | 1 | GD05101140 | 100Ω |
| R231 | 1 | 1 | GD05102140 | 1KΩ |
| R232 | 1 | 1 | GD05102140 | 1KΩ |
| R233 | 1 | 1 | GD05333140 | 33KΩ |
| R234 | 1 | 1 | GD05333140 | 33KΩ |
| R235 | 1 | 1 | GD05562140 | 5.6KΩ |
| R236 | 1 | 1 | GD05562140 | 5.6KΩ |
| R237 | 1 | 1 | GD05561140 | 560Ω |
| R238 | 1 | 1 | GD05561140 | 560Ω |
| R239 | 1 | 1 | GD05272140 | 2.7KΩ |
| R240 | 1 | 1 | GD05272140 | 2.7KΩ |
| R241 | 1 | 1 | GD05392140 | 3.9KΩ |
| R242 | 1 | 1 | GD05392140 | 3.9KΩ |
| R243 | 1 | 1 | GD05472140 | 4.7KΩ |
| R244 | 1 | 1 | GD05472140 | 4.7KΩ |
| R245 | 1 | 1 | RA02030060 | 20KΩ(B), Trimming |
| R246 | 1 | 1 | RA02030060 | 20KΩ(B), Trimming |
| R247 | 1 | 1 | GD05124140 | 120KΩ |
| R248 | 1 | 1 | GD05124140 | 120KΩ |
| R249 | 1 | 1 | GD05332140 | 3.3KΩ |
| R250 | 1 | 1 | GD05332140 | 3.3KΩ |
| R253 | 1 | 1 | GD05564140 | 560KΩ |
| R254 | 1 | 1 | GD05564140 | 560KΩ |
| R255 | 1 | 1 | GD05104140 | 100KΩ |
| R256 | 1 | 1 | GD05104140 | 100KΩ |
| R257 | 1 | 1 | GD05562140 | 5.6KΩ |
| R258 | 1 | 1 | GD05562140 | 5.6KΩ |
| R259 | 1 | 1 | GD05821140 | 820Ω |
| R260 | 1 | 1 | GD05821140 | 820Ω |
| R261 | 1 | 1 | GD05152140 | 1.5KΩ |
| R262 | 1 | 1 | GD05152140 | 1.5KΩ |
| R263 | 1 | 1 | GD05100140 | 10Ω |
| R264 | 1 | 1 | GD05100140 | 10Ω |
| R265 | 1 | 1 | GD05473140 | 47KΩ |
| R266 | 1 | 1 | GD05473140 | 47KΩ |
| R267 | 1 | 1 | GD05332140 | 3.3KΩ |
| R268 | 1 | 1 | GD05332140 | 3.3KΩ |
| R269 | 1 | 1 | GD05181140 | 180Ω |
| R270 | 1 | 1 | GD05181140 | 180Ω |
| R271 | 1 | 1 | GD05332140 | 3.3KΩ |
| R272 | 1 | 1 | GD05332140 | 3.3KΩ |
| R275 | 1 | 1 | GD05274140 | 270KΩ |
| R276 | 1 | 1 | GD05274140 | 270KΩ |
| R277 | 1 | 1 | GD05564140 | 560KΩ |
| R278 | 1 | 1 | GD05564140 | 560KΩ |
| R279 | 1 | 1 | GD05274140 | 270KΩ |
| R280 | 1 | 1 | GD05274140 | 270KΩ |
| R283 | 1 | 1 | GD05103140 | 10KΩ |
| R284 | 1 | 1 | GD05103140 | 10KΩ |
| R287 | 1 | 1 | GD05103140 | 10KΩ |
| R288 | 1 | 1 | GD05103140 | 10KΩ |

| REF. DESIG. | Q'TY N | Q'TY E | PART NO. | DESCRIPTION |
|---|---|---|---|---|
| R289 | 1 | 1 | GD05222140 | 2.2KΩ |
| R290 | 1 | 1 | GD05222140 | 2.2KΩ |
| R293 | 1 | 1 | GD05154140 | 150KΩ |
| R294 | 1 | 1 | GD05154140 | 150KΩ |
| R295 | 1 | 1 | GD05473140 | 47KΩ |
| R296 | 1 | 1 | GD05473140 | 47KΩ |
| R297 | 1 | 1 | GD05564140 | 560KΩ |
| R298 | 1 | 1 | GD05564140 | 560KΩ |
| R301 | 1 | 1 | GD05332140 | 3.3KΩ |
| R302 | 1 | 1 | GD05332140 | 3.3KΩ |
| R303 | 1 | 1 | GD05561140 | 560Ω |
| R304 | 1 | 1 | GD05561140 | 560Ω |
| R305 | 1 | 1 | GD05821140 | 820Ω |
| R306 | 1 | 1 | GD05821140 | 820Ω |
| R307 | 1 | 1 | RA05020160 | 5KΩ(B), Trimming |
| R308 | 1 | 1 | RA05020160 | 5KΩ(B), Trimming |
| R309 | 1 | 1 | GD05102140 | 1KΩ |
| R310 | 1 | 1 | GD05102140 | 1KΩ |
| R311 | 1 | 1 | GG05047120 | 4.7Ω ½W |
| R313 | 1 | | GG05121120 | 120Ω ½W |
| R313 | | 1 | GD05390140 | 39Ω |
| R314 | 1 | 1 | GD05682140 | 6.8KΩ |
| R315 | 1 | 1 | GD05472140 | 4.7KΩ |
| R316 | 1 | 1 | GD05683140 | 68KΩ |
| R317 | 1 | 1 | GD05470140 | 47Ω |
| R318 | 1 | 1 | GD05470140 | 47Ω |
| R319 | 1 | 1 | GD05680140 | 68Ω |
| R320 | 1 | 1 | GD05680140 | 68Ω |
| R321 | 1 | 1 | GD05103140 | 10KΩ |
| R322 | 1 | 1 | GD05103140 | 10KΩ |
| R323 | 1 | 1 | GD05682140 | 6.8KΩ |
| R324 | 1 | 1 | GD05682140 | 6.8KΩ |
| R325 | 1 | 1 | GD05102140 | 1KΩ |
| R326 | 1 | 1 | GD05102140 | 1KΩ |
| R327 | 1 | 1 | GD05334140 | 330KΩ |
| R328 | 1 | 1 | GD05334140 | 330KΩ |
| R329 | 1 | 1 | GD05473140 | 47KΩ |
| R330 | 1 | 1 | GD05473140 | 47KΩ |
| R331 | 1 | 1 | GD05472140 | 4.7KΩ |
| R332 | 1 | 1 | GD05472140 | 4.7KΩ |
| R333 | 1 | 1 | GD05222140 | 2.2KΩ |
| R334 | 1 | 1 | GD05222140 | 2.2KΩ |
| R335 | 1 | 1 | RA02030060 | 20KΩ(B), Trimming |
| R336 | 1 | 1 | RA02030060 | 20KΩ(B), Trimming |
| R337 | 1 | 1 | GD05103140 | 10KΩ |
| R338 | 1 | 1 | GD05103140 | 10KΩ |
| R341 | 1 | 1 | GD05822140 | 8.2KΩ |
| R342 | 1 | 1 | GD05103140 | 10KΩ |
| R343 | 1 | 1 | GD05224140 | 220KΩ |
| R344 | 1 | 1 | GD05823140 | 82KΩ |
| R345 | 1 | 1 | GD05222140 | 2.2KΩ |
| R346 | 1 | 1 | GD05102140 | 1KΩ |
| R347 | 1 | 1 | GD05102140 | 1KΩ |
| R348 | 1 | 1 | GD05102140 | 1KΩ |
| R349 | 1 | 1 | GD05105140 | 1MΩ |
| R350 | 1 | 1 | GD05102140 | 1KΩ |
| R351 | 1 | 1 | GD05103140 | 10KΩ |
| R352 | 1 | 1 | GF05047120 | 4.7Ω ½W |
| R353 | 1 | 1 | GD05472140 | 4.7KΩ |
| R354 | 1 | 1 | GD05472140 | 4.7KΩ |

• (N): for PMS7004
• (E): for PMS7004S

| REF. DESIG. | Q'TY N | Q'TY E | PART NO. | DESCRIPTION |
|---|---|---|---|---|
| R355 | 1 | 1 | GD05182140 | 1.8KΩ |
| R356 | 1 | 1 | GD05182140 | 1.8KΩ |
| R357 | 1 | 1 | GD05103140 | 10KΩ |
| R358 | 1 | 1 | GD05103140 | 10KΩ |
| R359 | 1 | 1 | GD05333140 | 33KΩ |
| R361 | 1 | 1 | GD05103140 | 10KΩ |
| R362 | 1 | 1 | GD05103140 | 10KΩ |
| R363 | 1 | 1 | GD05394140 | 390KΩ |
| R364 | 1 | 1 | GD05155140 | 1.5MΩ |
| R365 | 1 | 1 | GD05332140 | 3.3KΩ |
| R366 | 1 | 1 | GD05332140 | 3.3KΩ |
| R601 | 1 | 1 | RM05030810 | 50KΩ(D), Variable, Treble |
| R602 | 1 | 1 | RM05030810 | 50KΩ(D), Variable, Bass |
| R603 | 1 | 1 | GD05103140 | 10KΩ |
| R604 | 1 | 1 | GD05103140 | 10KΩ |
| R605 | 1 | 1 | GD05102140 | 1KΩ |
| R606 | 1 | 1 | GD05102140 | 1KΩ |
| R607 | 1 | 1 | GD05222140 | 2.2KΩ |
| R608 | 1 | 1 | GD05222140 | 2.2KΩ |
| R611 | 1 | 1 | GD05103140 | 10KΩ |
| R612 | 1 | 1 | GD05103140 | 10KΩ |
| R613 | 1 | 1 | GD05332140 | 3.3KΩ |
| R614 | 1 | 1 | GD05332140 | 3.3KΩ |
| R615 | 1 | 1 | RK05030290 | 50KΩ(G), Variable, Balance |
| R616 | 1 | 1 | RK05030820 | 50KΩ(B), Variable, Volume |
| | | | | **P200-SEMICONDUCTORS** |
| Q201 | 1 | 1 | HT110151B0 | Transistor 2SA1015(Y) |
| Q202 | 1 | 1 | HT110151B0 | Transistor 2SA1015(Y) |
| Q203 | 1 | 1 | HT318151D0 | Transistor 2SC1815(BL) |
| Q204 | 1 | 1 | HT318151D0 | Transistor 2SC1815(BL) |
| Q205 | 1 | 1 | HT308282A0 | Transistor 2SC828(R or S) |
| Q206 | 1 | 1 | HT308282A0 | Transistor 2SC828(R or S) |
| Q207 | 1 | 1 | HT314001E0 | Transistor 2SC1400(E) |
| Q208 | 1 | 1 | HT314001E0 | Transistor 2SC1400(E) |
| Q209 | 1 | 1 | HC10001360 | IC LM1011AN |
| Q210 | 1 | 1 | HC10001360 | IC LM1011AN |
| Q211 | 1 | 1 | HT320011K0 | Transistor 2SC2001(K) |
| Q212 | 1 | 1 | HT320011K0 | Transistor 2SC2001(K) |
| Q213 | 1 | 1 | HT308281D0 | Transistor 2SC828(S) |
| Q214 | 1 | 1 | HT308281D0 | Transistor 2SC828(S) |
| Q215 | 1 | 1 | HT308281D0 | Transistor 2SC828(S) |
| Q216 | 1 | 1 | HT308281D0 | Transistor 2SC828(S) |
| Q217 | 1 | 1 | HT318151C0 | Transistor 2SC1815(GR) |
| Q218 | 1 | 1 | HT318151C0 | Transistor 2SC1815(GR) |
| Q219 | 1 | 1 | HT308282A0 | Transistor 2SC828(R or S) |
| Q220 | 1 | 1 | HT320011L0 | Transistor 2SC2001(L) |
| Q221 | 1 | 1 | HT313271U0 | Transistor 2SC1327(U) |
| Q222 | 1 | 1 | HT313271U0 | Transistor 2SC1327(U) |
| Q223 | 1 | 1 | HT308282A0 | Transistor 2SC828(R or S) |
| Q225 | 1 | 1 | HT308282A0 | Transistor 2SC828(R or S) |
| Q226 | 1 | 1 | HT308282A0 | Transistor 2SC828(R or S) |
| Q231 | 1 | 1 | HD20001210 | Diode 1S2473 |
| Q232 | 1 | 1 | HD20001210 | Diode 1S2473 |
| Q233 | 1 | 1 | HD10002020 | Diode OA90 |
| Q234 | 1 | 1 | HD10002020 | Diode OA90 |
| Q235 | 1 | 1 | HD10002020 | Diode OA90 |

| REF. DESIG. | Q'TY N | Q'TY E | PART NO. | DESCRIPTION |
|---|---|---|---|---|
| Q236 | 1 | 1 | HD10002020 | Diode OA90 |
| Q237 | 1 | 1 | HD10002020 | Diode OA90 |
| Q238 | 1 | 1 | HD10002020 | Diode OA90 |
| Q239 | 1 | 1 | HD20001210 | Diode 1S2473 |
| Q240 | 1 | 1 | HD20001210 | Diode 1S2473 |
| Q241 | 1 | 1 | HD20001210 | Diode 1S2473 |
| Q242 | 1 | 1 | HD20001210 | Diode 1S2473 |
| Q243 | 1 | 1 | HD20001210 | Diode 1S2473 |
| Q244 | 1 | 1 | HD30033090 | Zener WZ-052 |
| Q245 | 1 | 1 | HD20001210 | Diode 1S2473 |
| Q246 | 1 | 1 | HD20001210 | Diode 1S2473 |
| Q247 | 1 | 1 | HD20001210 | Diode 1S2473 |
| Q248 | 1 | 1 | HD20011050 | Diode 1S1555 |
| Q249 | 1 | 1 | HD20011050 | Diode 1S1555 |
| | | | | **P200-MISCELLANEOUS** |
| J291 | 1 | 1 | YJ06002270 | Jack (8P) |
| L201 | 1 | 1 | LS70305010 | M.P.X. Coil, 19KHz |
| L202 | 1 | 1 | LS70305010 | M.P.X. Coil, 19KHz |
| L203 | 1 | 1 | LC22260060 | Choke Coil, 22mH |
| L204 | 1 | 1 | LC22260060 | Choke Coil, 22mH |
| L205 | 1 | 1 | LC22260060 | Choke Coil, 22mH |
| L206 | 1 | 1 | LC22260060 | Choke Coil, 22mH |
| L207 | 1 | 1 | LC24750040 | Choke Coil, 4.7mH |
| L208 | 1 | 1 | LC24750040 | Choke Coil, 4.7mH |
| L209 | 1 | 1 | LC22260010 | Choke Coil, 22mH |
| L210 | 1 | 1 | LC22260010 | Choke Coil, 22mH |
| S201 | 1 | 1 | SR06050190 | Rotary Switch, Function |
| S202 | 1 | 1 | SS12020110 | Slide Switch, Rec/Play |
| S203 | 1 | 1 | SC02030080 | Switch, FM Mut/ISS |
| S204 | 1 | 1 | SS06030180 | Slide Switch, Tape Select |
| S205 | 1 | 1 | SB11800040 | Switch Band, FLX |
| S206 | 1 | 1 | SC00030020 | Switch, Tape Select |
| S207 | 1 | 1 | SB12200010 | Switch Band, FLX, Rec/Play |
| S601 | 1 | 1 | SC02020350 | Switch, Mode Mono/Stereo |
| W201 | 1 | 1 | YU03160240 | Jumper Lead, (3P) 160mm |
| W202 | 1 | 1 | YU03160240 | Jumper Lead, (3P) 160mm |
| W204 | 1 | 1 | YU04090020 | Jumper Lead, (4P) 90mm |
| W205 | 1 | 1 | YU05240240 | Jumper Lead, (5P) 240mm |
| W206 | 1 | 1 | YU05240240 | Jumper Lead, (5P) 240mm |
| W207 | 1 | 1 | YU10250210 | Jumper Lead, (10P) 250mm |
| | | | | **P400-POWER AMP. CIRCUIT BOARD** |
| ⚠P400 | 1 | 1 | YK208T2422 | P.W. Board, Power Amp. |
| | 1 | 1 | ZZ208T1420 | P.W. Board Assembly |
| | | | | **P400-CAPACITORS** |
| C401 | 1 | 1 | EA47505030 | Elect 4.7μF 50V |
| C402 | 1 | 1 | EA47505030 | Elect 4.7μF 50V |
| C403 | 1 | 1 | EA22602530 | Elect 22μF 25V |
| C404 | 1 | 1 | EA10701030 | Elect 100μF 10V |
| C405 | 1 | 1 | EA10701030 | Elect 100μF 10V |
| C406 | 1 | 1 | EA10701030 | Elect 100μF 10V |
| C407 | 1 | 1 | EA10701030 | Elect 100μF 10V |
| C408 | 1 | 1 | EA10701030 | Elect 100μF 10V |
| C409 | 1 | 1 | DF16104300 | Film 0.1μF ±10% |
| C410 | 1 | 1 | DF16104300 | Film 0.1μF ±10% |

• (N): for PMS7004
• (E): for PMS7004S

| REF. DESIG. | Q'TY N | Q'TY E | PART NO. | DESCRIPTION |
|---|---|---|---|---|
| C411 | 1 | 1 | EA10801030 | Elect 1000μF 10V |
| C412 | 1 | 1 | EA10801030 | Elect 1000μF 10V |
| C413 | 1 | 1 | EA10802530 | Elect 1000μF 25V |
| C414 | 1 | 1 | EA47701630 | Elect 470μF 16V |
| C415 | 1 | 1 | EA22701630 | Elect 220μF 16V |
| C416 | 1 | 1 | EA47701630 | Elect 470μF 16V |
| C417 | 1 | 1 | EA10702530 | Elect 100μF 25V |
| C418 | 1 | 1 | EA22702530 | Elect 220μF 25V |
| C419 | 1 | 1 | EA47601630 | Elect 47μF 16V |
| C450 | 1 | 1 | DD15221370 | Ceramic 220pF ±5% |
| C451 | 1 | 1 | DD15300370 | Ceramic 30pF ±5% |
| | | | | **P400-RESISTORS** |
| | | | | **(All Resistors are ±5% and ¼W)** |
| R401 | 1 | 1 | GD05333140 | 33KΩ |
| R402 | 1 | 1 | GD05333140 | 33KΩ |
| R403 | 1 | 1 | GD05122140 | 1.2KΩ |
| R404 | 1 | 1 | GG05022120 | 2.2Ω ½W |
| R405 | 1 | 1 | GG05100120 | 10Ω ½W |
| R406 | 1 | 1 | GD05151140 | 150Ω |
| R407 | 1 | 1 | GD05104140 | 100KΩ |
| R408 | 1 | 1 | GG05056120 | 5.6Ω ½W |
| R409 | 1 | 1 | GD05681140 | 680Ω |
| R410 | 1 | 1 | GG05100120 | 10Ω ½W |
| R411 | 1 | 1 | GG05100120 | 10Ω ½W |
| R412 | 1 | 1 | GD05102140 | 1KΩ |
| R413 | 1 | 1 | GD05271140 | 270Ω |
| | | | | **P400-SEMICONDUCTORS** |
| Q401 | 1 | 1 | HC10037010 | IC HA1392 |
| Q402 | 1 | 1 | HT407931Q0 | Transistor 2SD793(Q) |
| Q403 | 1 | 1 | HT407931Q0 | Transistor 2SD793(Q) |
| Q404 | 1 | 1 | HT313831C0 | Transistor 2SC1383(R) |
| Q405 | 1 | 1 | HD30029090 | Zener WZ-090 |
| Q406 | 1 | 1 | HD30029090 | Zener WZ-090 |
| Q407 | 1 | 1 | HT407932A0 | Transistor 2SD793 (R or Q) |
| | | | | **P400-COIL** |
| L401 | 1 | 1 | LC14730040 | Choke Coil, 47μH |
| | | | | **P500-MIXING-REC MODE CIRCUIT BOARD** |
| P500 | 1 | 1 | YF210T0020 | P.W. Board, Mixing-Rec Mode |
| | 1 | 1 | ZZ210T8020 | P.W. Board Assembly |
| | | | | **P500-CAPACITORS** |
| C501 | 1 | 1 | EA10505030 | Elect 1μF 50V |
| C502 | 1 | 1 | DD15221370 | Ceramic 220pF ±5% |
| C503 | 1 | 1 | DD15101370 | Ceramic 100pF ±5% |
| C504 | 1 | 1 | EA33601030 | Elect 33μF 10V |
| C505 | 1 | 1 | EA10505030 | Elect 1μF 50V |
| C506 | 1 | 1 | DD15470370 | Ceramic 47pF ±5% |
| C507 | 1 | 1 | EA10702530 | Elect 100μF 25V |
| C508 | 1 | 1 | DK18103320 | Ceramic 0.01μF +80% −20% |

| REF. DESIG. | Q'TY N | Q'TY E | PART NO. | DESCRIPTION |
|---|---|---|---|---|
| | | | | **P500-RESISTORS** |
| | | | | **(All Resistors are ±5% and ¼W)** |
| R501 | 1 | 1 | GD05332140 | 3.3KΩ |
| R502 | 1 | 1 | GD05561140 | 560Ω |
| R503 | 1 | 1 | GD05473140 | 47KΩ |
| R504 | 1 | 1 | GD05154140 | 150KΩ |
| R505 | 1 | 1 | GD05332140 | 3.3KΩ |
| R506 | 1 | 1 | GD05561140 | 560Ω |
| R507 | 1 | 1 | GD05823140 | 82KΩ |
| R508 | 1 | 1 | RK05030300 | 50KΩ(A) Variable, Mixing |
| R509 | 1 | 1 | GD05561140 | 560Ω |
| R510 | 1 | 1 | GD05102140 | 1KΩ |
| R511 | 1 | 1 | RA05020160 | 5KΩ(B) Trimming, ARL Level |
| R512 | 1 | 1 | GD05102140 | 1KΩ |
| R513 | 1 | 1 | GD05103140 | 10KΩ |
| R514 | 1 | 1 | GD05103140 | 10KΩ |
| R515 | 1 | 1 | RD02030092 | 20KΩ(A) Variable, Rec Level |
| | | | | **P500-SEMICONDUCTORS** |
| Q501 | 1 | 1 | HT318151B0 | Transistor 2SC1815(Y) |
| Q502 | 1 | 1 | HT318151D0 | Transistor 2SC1815(BL) |
| Q503 | 1 | 1 | HT320011K0 | Transistor 2SC2001(K) |
| Q504 | 1 | 1 | HT320011K0 | Transistor 2SC2001(K) |
| | | | | **P500-MISCELLANEOUS** |
| J290 | 1 | 1 | YJ06002370 | Jack (10P) |
| S501 | 1 | 1 | SC04020120 | Switch, Mixing |
| S502 | 1 | 1 | SC04020120 | Switch, Rec Mode |
| | | | | **P700-JACK CIRCUIT BOARD** |
| P700 | 1 | 1 | YK208T2410 | P.W. Board, Jack |
| | 1 | 1 | ZZ208T0070 | P.W. Board Assembly |
| | | | | **P700-CAPACITORS** |
| C701 | 1 | 1 | EA47505030 | Elect 4.7μF 50V |
| C702 | 1 | 1 | EA47505030 | Elect 4.7μF 50V |
| C703 | 1 | 1 | DD15300360 | Ceramic 30pF ±5% |
| C704 | 1 | 1 | DD15300360 | Ceramic 30pF ±5% |
| C705 | 1 | 1 | DF16223300 | Film 0.022μF ±10% |
| C706 | 1 | 1 | DF16223300 | Film 0.022μF ±10% |
| C707 | 1 | 1 | EA10505030 | Elect 1μF 50V |
| C708 | 1 | 1 | EA10505030 | Elect 1μF 50V |
| C711 | 1 | 1 | DF16224300 | Film 0.22μF ±10% |
| C712 | 1 | 1 | DF16224300 | Film 0.22μF ±10% |
| C713 | 1 | 1 | EA22702530 | Elect 220μF 25V |
| C725 | 1 | 1 | DD15221360 | Ceramic 220pF ±5% |
| | | | | **P700-RESISTORS** |
| | | | | **(All Resistors are ±5% and ¼W)** |
| R701 | 1 | 1 | GD05332140 | 3.3KΩ |
| R702 | 1 | 1 | GD05332140 | 3.3KΩ |
| R703 | 1 | 1 | RN05105140 | 1MΩ |
| R704 | 1 | 1 | RN05105140 | 1MΩ |
| R705 | 1 | 1 | GD05101140 | 100Ω |
| R706 | 1 | 1 | GD05101140 | 100Ω |
| R707 | 1 | 1 | GD05472140 | 4.7KΩ |
| R708 | 1 | 1 | GD05472140 | 4.7KΩ |
| R709 | 1 | 1 | GD05153140 | 15KΩ |
| R710 | 1 | 1 | GD05153140 | 15KΩ |

• (N): for PMS7004
• (E): for PMS7004S

| REF. DESIG. | Q'TY N | Q'TY E | PART NO. | DESCRIPTION |
|---|---|---|---|---|
| R711 | 1 | 1 | GD05152140 | 1.5KΩ |
| R712 | 1 | 1 | GD05152140 | 1.5KΩ |
| R713 | 1 | 1 | GD05153140 | 15KΩ |
| R714 | 1 | 1 | GD05153140 | 15KΩ |
| R715 | 1 | 1 | GD05222140 | 2.2KΩ |
| R716 | 1 | 1 | GD05222140 | 2.2KΩ |
| R717 | 1 | 1 | GD05331140 | 330Ω |
| | | | | **P700-TRANSISTORS** |
| Q701 | 1 | 1 | HT314001E0 | Transistor 2SC1400(E) |
| Q702 | 1 | 1 | HT314001E0 | Transistor 2SC1400(E) |
| | | | | **P700-MISCELLANEOUS** |
| J701 | 1 | 1 | BY09090010 | Jack Board |
| W701 | 1 | 1 | YU08280240 | Jumper Lead, 280mm |
| | | | | **P800-POWER SUPPLY CIRCUIT BOARD** |
| ⚠P800 | 1 | 1 | YF210T0030 | P.W. Board, Power Supply |
| | 1 | 1 | ZZ210T1320 | P.W. Board Assembly |
| | | | | **P800-CAPACITORS** |
| C801 | 1 | 1 | EA47801630 | Elect 4700μF 16V |
| C802 | 1 | 1 | EA47801630 | Elect 4700μF 16V |
| C803 | 1 | 1 | DK18103320 | Ceramic 0.01μF +80% −20% |
| C804 | 1 | 1 | DK18103320 | Ceramic 0.01μF +80% −20% |
| C805 | 1 | 1 | DK18103320 | Ceramic 0.01μF +80% −20% |
| C806 | 1 | 1 | DK18103320 | Ceramic 0.01μF +80% −20% |
| C807 | 1 | 1 | EA10601630 | Elect 10μF 16V |
| | | | | **P800-RESISTORS** |
| R801 | 1 | 1 | RA05030090 | 50KΩ Trimming, Batt. Check |
| R802 | 1 | 1 | GD05683140 | 68KΩ ±5% ¼W |
| R804 | 1 | 1 | GD05102140 | 1KΩ ±5% ¼W |
| R807 | 1 | 1 | GD05104140 | 100KΩ ±5% ¼W |
| R808 | 1 | 1 | GD05102140 | 1KΩ ±5% ¼W |
| | | | | **P800-SEMICONDUCTORS** |
| Q801 | 1 | 1 | HT313831C0 | Transistor 2SC1383(R) |
| Q802 | 1 | 1 | HD20007290 | Diode S3V10 |
| Q803 | 1 | 1 | HD20007290 | Diode S3V10 |
| Q804 | 1 | 1 | HD20007290 | Diode S3V10 |
| Q805 | 1 | 1 | HD20007290 | Diode S3V10 |
| Q807 | 1 | 1 | HD20011050 | Diode 1S1555 |
| | | | | **P800-MISCELLANEOUS** |
| F801 | 1 | 1 | FS10250800 | Fuse 2.5A |
| J801 | 1 | 1 | YJ08000200 | Jack, Fuse Clip |
| J802 | 1 | 1 | YJ08000200 | Jack, Fuse Clip |
| J803 | 1 | 1 | YP06000600 | Plug (9P) |
| J804 | 1 | 1 | YJ06001430 | Jack (9P) |
| J817 | 1 | 1 | YP06002380 | Plug (1P) |

| REF. DESIG. | Q'TY N | Q'TY E | PART NO. | DESCRIPTION |
|---|---|---|---|---|
| | | | | **P950-BIAS OSC/MOTOR FILTER CIRCUIT BOARD** |
| P950 | 1 | 1 | YF210T0010 | P.W. Board, Bias OSC/Motor Filter |
| | 1 | | ZZ210T8010 | P.W. Board Assembly |
| | | 1 | ZZ210T8030 | P.W. Board Assembly |
| | | | | **P950-CAPACITORS** |
| C951 | 1 | 1 | DD15331370 | Ceramic 330pF ±5% |
| C952 | 1 | 1 | DD15331370 | Ceramic 330pF ±5% |
| C953 | 1 | | DF55242510 | Film 2400pF ±5% |
| C953 | | 1 | DF55122510 | Film 1200pF ±5% |
| C954 | 1 | | DF16153300 | Film 0.015μF ±10% |
| C954 | | 1 | DF16682300 | Film 6800pF ±10% |
| C955 | 1 | | DF16332300 | Film 3300pF ±10% |
| C955 | | 1 | DF16682300 | Film 6800pF ±10% |
| C956 | 1 | 1 | DF16153300 | Film 0.015μF ±10% |
| C957 | 1 | 1 | EA10602530 | Elect 10μF 25V |
| C958 | 1 | 1 | DK18473320 | Ceramic 0.047μF +80% −20% |
| C959 | 1 | 1 | DK18473320 | Ceramic 0.047μF +80% −20% |
| C961 | 1 | 1 | EA47701630 | Elect 470μF 16V |
| C962 | 1 | 1 | DK18473320 | Ceramic 0.047μF +80% −20% |
| C963 | 1 | | DF55821510 | Film 820pF ±5% |
| C964 | 1 | | DF55471510 | Film 470pF ±5% |
| | | | | **P950-RESISTORS (All Resistors are ±5% and ¼W)** |
| R951 | 1 | 1 | RA01040110 | 100KΩ Trimming, Bias Adj. |
| R952 | 1 | 1 | RA01004110 | 100KΩ Trimming, Bias Adj. |
| R953 | 1 | | GD05153140 | 15KΩ |
| R953 | | 1 | GD05272140 | 2.7KΩ |
| R954 | 1 | | GG05100120 | 10Ω ½W |
| R954 | | 1 | GG05022120 | 2.2Ω ½W |
| R955 | 1 | | GD05333140 | 33KΩ |
| R961 | 1 | 1 | GG05022120 | 2.2Ω ½W |
| | | | | **P950-SEMICONDUCTOR** |
| Q951 | 1 | 1 | HT404711L0 | Transistor 2SD471(L) |
| | | | | **P950-MISCELLANEOUS** |
| L951 | 1 | | TC10140150 | OSC Transformer |
| L951 | | 1 | TC10420010 | OSC Transformer |
| L952 | 1 | 1 | LC22750500 | Choke Coil, 2.7mH |
| L961 | 1 | 1 | LC14730040 | Choke Coil, 47μH |
| C901 | 1 | 1 | DK18473320 | Ceramic 0.047μF +80% −20% |
| C902 | 1 | 1 | DD15101370 | Ceramic 100pF ±5% |
| L901 | 1 | 1 | LC11040010 | Choke Coil, 100μH |

| | |
|---|---|
| **(W01-99)** | **Assembly and Wiring** |
| **(T01-99)** | **Adjustment** |
| **(X01-00)** | **Correction** |

## 13. TECHNICAL SPECIFICATIONS

**Tape Recorder Section**

| | |
|---|---|
| Style | Front load |
| Tape Drive System | Single Capstan Drive |
| Cartridge | Philips type compact cassette |
| Track System | Compatible Stereo 4-track 2 channel |
| Tape Speed | 1-7/8 ips (4.75 cm/sec.) |
| Heads | 2 Head System |
| Composition | Rec/Play: Superhard Permalloy<br>Erase: Ferrite |
| Motor | DC Servo Controlled Motor x 1 |
| Meters | x 2 |
| Recording System | AC Bias |
| Erasing System | AC Erase |
| Overall Frequency Response (Dolby off): | |
| Ferric Oxide Tape | 60 Hz to 12.5 kHz +2.5/—40 dB |
| $CrO_2$ Tape | 60 Hz to 12.5 kHz +2.5/—40 dB |
| Total Harmonic Distortion | |
| Ferric Oxide Tape | 3% |
| $CrO_2$ Tape | 3% |
| FeCr Tape | 4% |
| Wow and Flutter (DIN WTD) | 0.18% |
| Fast Rewind Time | 105 sec. |
| Fast Forward time | 105 sec. |

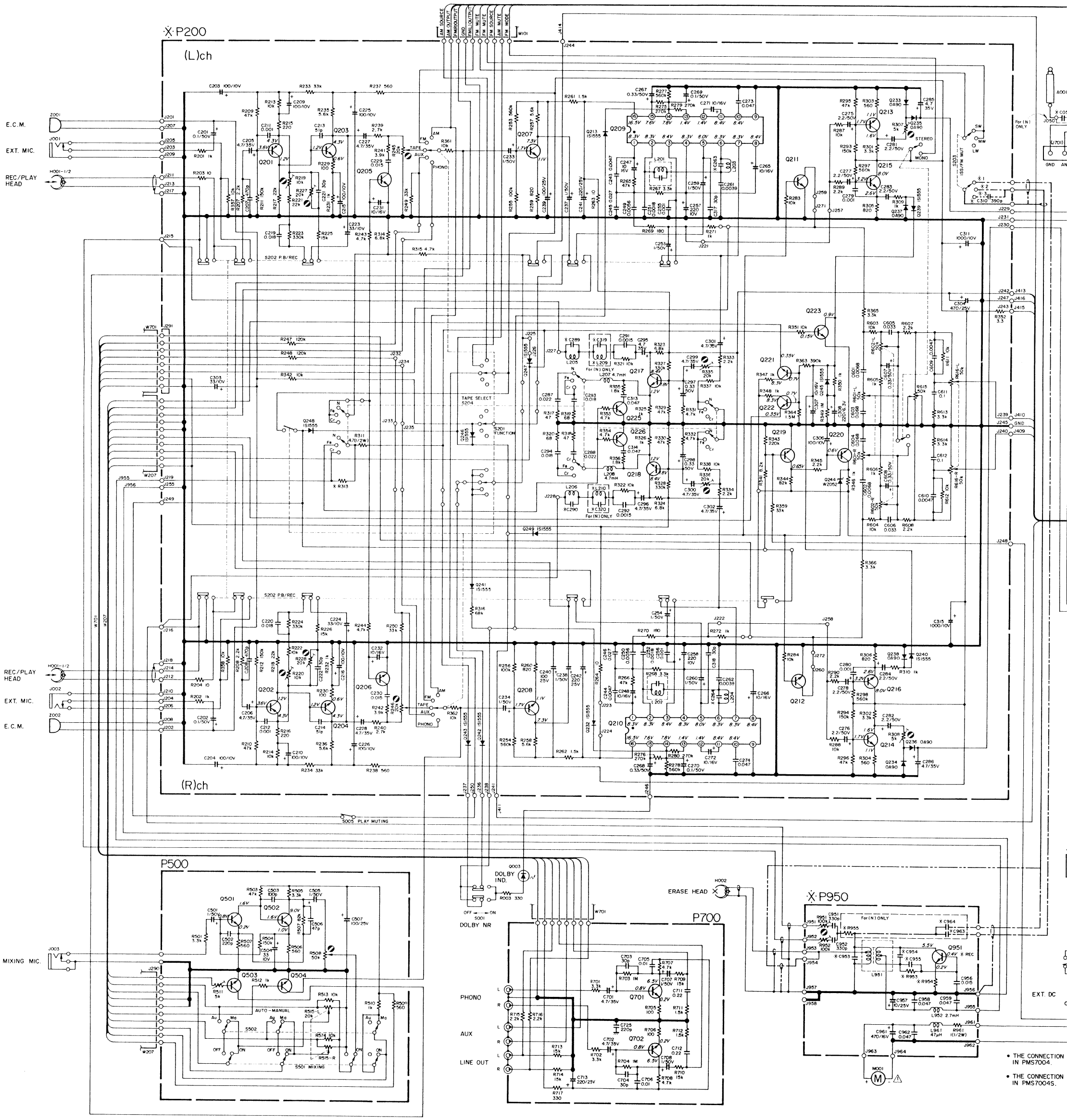
**Tuner Section**

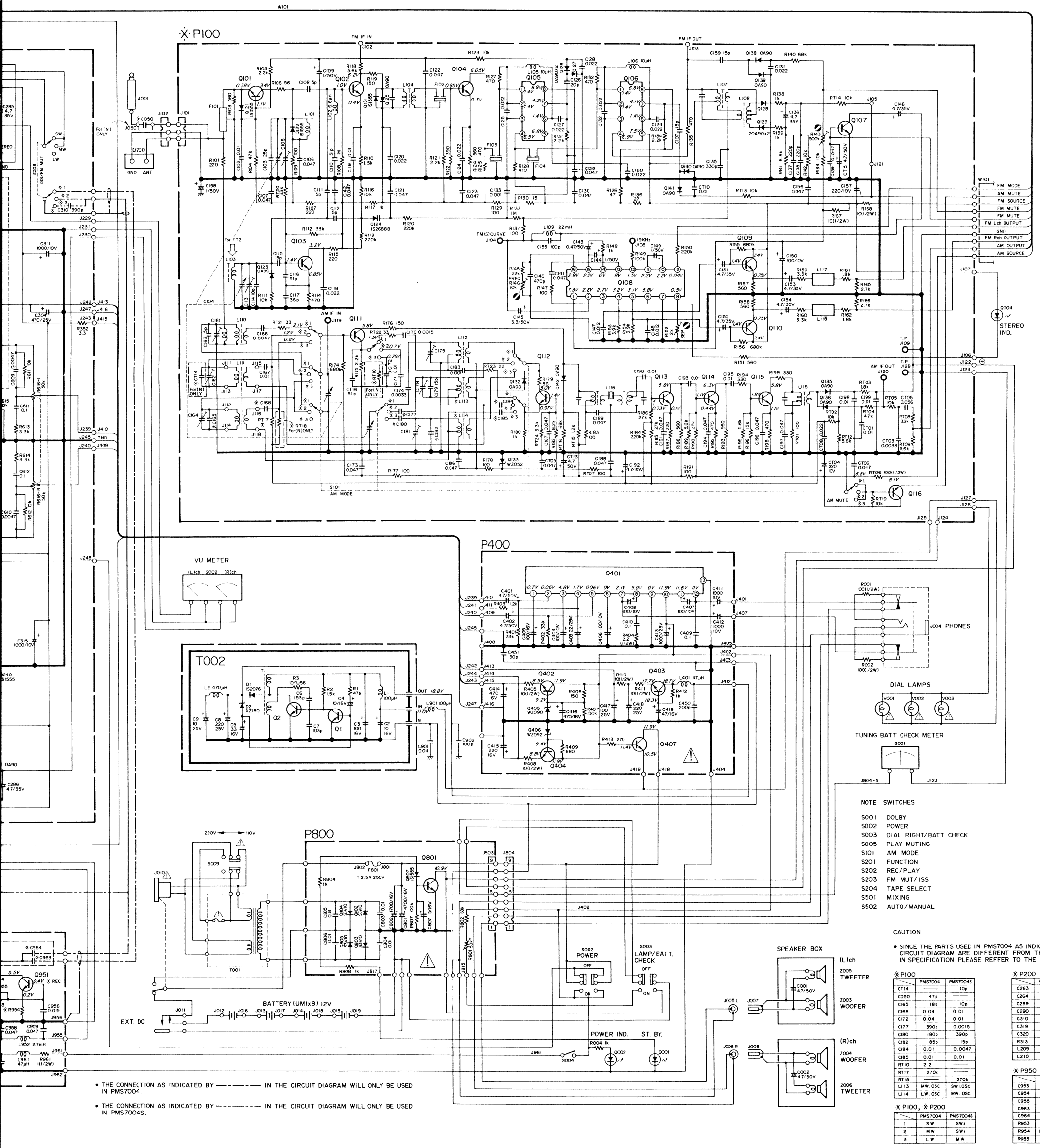
| | |
|---|---|
| Circuit System (PMS7004) | 4 Band FM/LW/MW/SW |
| Circuit System (PMS7004S) | 4 Band FM/MW/$SW_1$/$SW_2$<br>Superheterodyne |
| Frequency Range (PMS7004) | FM 88 ~ 108 MHz<br>LW 150 ~ 370 kHz<br>MW 525 ~ 1605 kHz<br>SW 6 ~ 18 MHz |
| Frequency Range (PMS7004S) | FM 88 ~ 108 MHz<br>MW 525 ~ 1605 kHz<br>$SW_1$ 2 ~ 6 MHz<br>$SW_2$ 6 ~ 18 MHz |

**General**

| | |
|---|---|
| Semi-Conductor Complement: | |
| IC's | 6 |
| FET's | 2 |
| Transistors | 49 |
| Diodes | 50 |
| Unit Weight (less batteries) | 27 lb., 8 oz. (12.5 kg) |
| Dimensions | 79.2 x 31.7 x 15.0 cm (W.H.D.)<br>(31-3/16" x 12-1/2" x 5-15/16") |
| Power Output | 4.0W x 2 ( 1 kHz 10% Dist) |
| Power Requirements (PMS 7004) | 110/220V ~, 50/60 Hz<br>(This unit may be converted to 110V 50/60 Hz operation by placing the Voltage Selector Switch located within the Battery Compartment to the 220V position.) |
| Power Requirement (PMS 7004S) | 110/220V 50/60 Hz<br>(This unit may be converted to 110V, 50/60 Hz operation by placing the Voltage Selector Switch located within the Battery Compartment to the 220V position.)<br>8 "D" Size Batteries<br>External 12V DC |

## 14. SCHEMATIC DIAGRAM






Q101,Q102
2SC1047(C)

Q103,Q111,Q112
2SC1359(C)

Q104,Q113～Q11
2SC829(C)

Q105,Q106
LAI222

Q107
2SD227(QorV)

Q108
BAI320

Q109,Q110
2SC828(QorR)

Q116
2SC828

Q201,Q202
2SA1015(Y)

Q203,Q204
Q207,Q208
Q217,Q218
2SC1815(GR)

Q205,Q206
Q213～Q216
Q219,Q223
2SC828(QorR)

Q209,Q210
LM1011AN

Q211,Q212
2SC2001

Q220
2SD227(QorV)

Q221,Q222
2SC1317(U)

Q401
HAI392

Q402,Q403
2SD793

Q404
2SC1383(S)

Q407
2SD793(RorQ)

Q501
2SC1815(Y)

Q502
2SC1815(BL)

Q503,Q504
2SD227(QorY)

Q701,Q702
2SC1815(GR)

Q801
2SC1383(R)

Q951
2SD471(L)

Q1
2SC828(R)

Q2
2SC496(O)

Q001,Q002
SLP-132B

Q003,Q004
LN217RP

NOTE SWITCHES

| | |
|---|---|
| S001 | DOLBY |
| S002 | POWER |
| S003 | DIAL RIGHT/BATT CHECK |
| S005 | PLAY MUTING |
| S101 | AM MODE |
| S201 | FUNCTION |
| S202 | REC/PLAY |
| S203 | FM MUT/ISS |
| S204 | TAPE SELECT |
| S501 | MIXING |
| S502 | AUTO/MANUAL |

CAUTION

- SINCE THE PARTS USED IN PMS7004 AS INDICATED BY ※ IN THI CIRCUIT DIAGRAM ARE DIFFERENT FROM THOSE IN PMS7004S IN SPECIFICATION PLEASE REFFER TO THE FOLLOWING TABLE.

※ P100

| | PMS7004 | PMS7004S |
|---|---|---|
| CT14 | —— | 10p |
| C050 | 47p | —— |
| C165 | 18p | 10p |
| C168 | 0.04 | 0.01 |
| C172 | 0.04 | 0.01 |
| C177 | 390p | 0.0015 |
| C180 | 180p | 390p |
| C182 | 85p | 15p |
| C184 | 0.01 | 0.0047 |
| C185 | 0.01 | 0.01 |
| RT10 | 2.2 | —— |
| RT17 | 270k | —— |
| RT18 | —— | 270k |
| L113 | MW OSC | SW1 OSC |
| L114 | LW OSC | MW OSC |

※ P200

| | PMS7004 | PMS7004S |
|---|---|---|
| C263 | 500p | 100p |
| C264 | 500p | 100p |
| C289 | 500p | 100p |
| C290 | 500p | 100p |
| C310 | —— | 390p |
| C319 | 500p | —— |
| C320 | 500p | —— |
| R313 | 120 | 47 |
| L209 | 22mH | —— |
| L210 | 22mH | —— |

※ P100, ※ P200

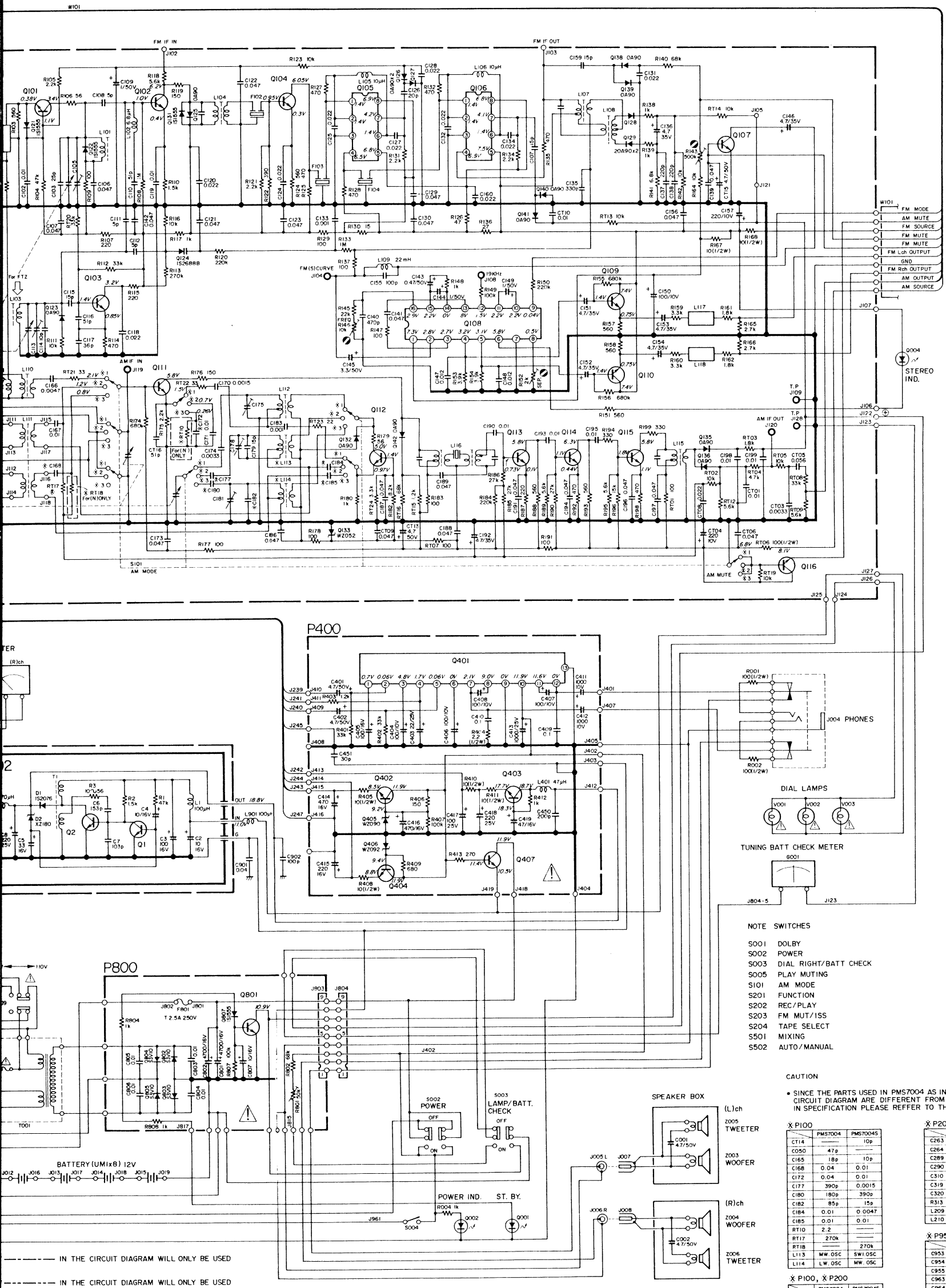
| | PMS7004 | PMS7004S |
|---|---|---|
| 1 | SW | SW2 |
| 2 | MW | SW1 |
| 3 | LW | MW |

※ P950

| | PMS7004 | PMS7004S |
|---|---|---|
| C953 | 2400p | 1200p |
| C954 | 0.015 | 0.0068 |
| C955 | 0.0033 | 0.0068 |
| C963 | 820p | —— |
| C964 | 470p | —— |
| R953 | 15k | 2.7k |
| R954 | 10 | 2.2 |
| R955 | 33k | —— |

- THE CONNECTION AS INDICATED BY —— IN THE CIRCUIT DIAGRAM WILL ONLY BE USED IN PMS7004.
- THE CONNECTION AS INDICATED BY —— IN THE CIRCUIT DIAGRAM WILL ONLY BE USED IN PMS7004S.

# Model PMS 7004/7004S

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Q103,Q111,Q112
2SC1359(C)

Q104,Q113～Q115
2SC829(C)

Q105,Q106
LA1222

Q107
2SD227(QorV)

Q108
BAI320

Q109,Q110
2SC828(QorR)

Q116
2SC828

Q201,Q202
2SA1015(Y)

Q203,Q204
Q207,Q208
Q217,Q218
2SC1815(GR)

Q205,Q206
Q213～Q216
Q219,Q223
2SC828(QorR)

Q209,Q210
LM1011AN

Q211,Q212
2SC2001

Q220
2SD227(QorV)

Q221,Q222
2SC1317(U)

Q401
HA1392

Q402,Q403
2SD793

Q404
2SC1383(S)

Q407
2SD793(RorQ)

Q501
2SC1815(Y)

Q502
2SC1815(BL)

Q503,Q504
2SD227(QorY)

Q701,Q702
2SC1815(GR)

Q801
2SC1383(R)

Q951
2SD471(L)

Q1
2SC828(R)

Q2
2SC496(O)

Q001,Q002
SLP-132B

Q003,Q004
LN217RP

NOTE SWITCHES

| | |
|---|---|
| S001 | DOLBY |
| S002 | POWER |
| S003 | DIAL RIGHT/BATT CHECK |
| S005 | PLAY MUTING |
| S101 | AM MODE |
| S201 | FUNCTION |
| S202 | REC/PLAY |
| S203 | FM MUT/ISS |
| S204 | TAPE SELECT |
| S501 | MIXING |
| S502 | AUTO/MANUAL |

CAUTION

- SINCE THE PARTS USED IN PMS7004 AS INDICATED BY ※ IN THE CIRCUIT DIAGRAM ARE DIFFERENT FROM THOSE IN PMS7004S IN SPECIFICATION PLEASE REFFER TO THE FOLLOWING TABLE.

※ P100

| | PMS7004 | PMS7004S |
|---|---|---|
| CT14 | —— | 10p |
| C050 | 47p | —— |
| C165 | 18p | 10p |
| C168 | 0.04 | 0.01 |
| C172 | 0.04 | 0.01 |
| C177 | 390p | 0.0015 |
| C180 | 180p | 390p |
| C182 | 85p | 15p |
| C184 | 0.01 | 0.0047 |
| C185 | 0.01 | 0.01 |
| RT10 | 2.2 | —— |
| RT17 | 270k | —— |
| RT18 | —— | 270k |
| L113 | MW.OSC | SW1.OSC |
| L114 | LW.OSC | MW.OSC |

※ P100, ※ P200

| | PMS7004 | PMS7004S |
|---|---|---|
| 1 | SW | SW2 |
| 2 | MW | SW1 |
| 3 | LW | MW |

※ P200

| | PMS7004 | PMS7004S |
|---|---|---|
| C263 | 500p | 100p |
| C264 | 500p | 100p |
| C289 | 500p | 100p |
| C290 | 500p | 100p |
| C310 | —— | 390p |
| C319 | 500p | —— |
| C320 | 500p | —— |
| R313 | 120 | 47 |
| L209 | 22mH | —— |
| L210 | 22mH | —— |

※ P950

| | PMS7004 | PMS7004S |
|---|---|---|
| C953 | 2400p | 1200p |
| C954 | 0.015 | 0.0068 |
| C955 | 0.0033 | 0.0068 |
| C963 | 820p | —— |
| C964 | 470p | —— |
| R953 | 15k | 2.7k |
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| R955 | 33k | —— |